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USAFETAC
Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

MALMSTROM : FB MT/GREAT FALLS   WBAN# 24112
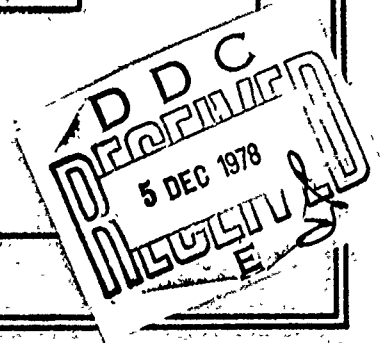N 47 30 W 111 11   FLD ELEV 3523 FT   GFA   WMO #

PARTS A-F

FOR FROM HOURLY OBS: DEC 67 - NOV 77
FOR FROM DAILY OBS: DEC 45 - NOV 77

JUN 12 1978

FEDERAL BUILDING

DDC
5 DEC 1978

78 11 20 036

<u>Review and Approval Statement</u>

This report approved for public release. There is no
objection to unlimited distribution of this report to
the public at large, or by DDC to the National Technical
Information Service (NTIS).

This technical report has been reviewed and is approved
for publication.

CARL A BOWER, JR
Chief, Data Reference Section
Climatological Services Branch

FOR THE COMMANDER

WALTER S BURGMANN
Scientific & Technical Information Officer

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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NTIS   White Section ☒
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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

*RUSSWO	Relative humidity	*Climatological data
*Montana	Daily temperature	Atmospheric pressure
Snowfall	Extreme snow depth	Extreme surface winds
Climatology	Sea-level pressure	Extreme surface winds
Surface winds	Extreme temperature	Psychrometric summary
		Ceiling versus visibility (over)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This six-part statistical summary of surface weather observations for Malmstrom AFB, Great Falls, Montana contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface Winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature; means and standard deviations of dry-bulb, wet-bulb, and dew-point temperatures, and relative (over)

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19. **Malmstrom AFB, Great Falls, Montana
        Percentage frequency of distribution tables
        Dry-bulb temperature versus wet-bulb temperature
        Cumulative percentage frequency of distribution tables

20. humidity); and (F) Pressure Summary (means, standard deviations, and ob-
servation counts of station pressure and sea-level pressure). Data in this
report are presented in tabular form, in most cases in percentage frequency of
occurrence or cumulative percentage frequency of occurrence tables.

THE VALUES CONTAINED HEREIN HAVE BEEN QUALITY CONTROLLED
TO REMOVE ERRONEOUS DATA. HOWEVER, BECAUSE RESOURCES
AVAILABLE FOR QUALITY CONTROL ARE FINITE, A FEW ERRORS
MAY REMAIN; WHEN THEY HAPPEN, SUCH ERRORS USUALLY
APPEAR IN THE TABULATIONS AS A PERCENTAGE FREQUENCY OF ".0",
INDICATIVE OF ONLY ONE OCCURRENCE. THESE MAY OR MAY NOT BE
VALID. OBVIOUS ERRORS OR IMPOSSIBLE CONDITIONS WHICH WERE
NOT DISCOVERED UNTIL AFTER THE FINAL SUMMARY WAS PRODUCED
HAVE BEEN LINED THROUGH IN BLACK INK.

REVISED UNIFORM SUMMARY

OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS	**PART E DAILY MAX, MIN, & MEAN TEMP**
ATMOSPHERIC PHENOMENA	**EXTREME MAX & MIN TEMP**
PART B PRECIPITATION	**PSYCHROMETRIC-DRY VS WET BULB**
SNOWFALL	**MEAN & STD DEV .**
SNOW DEPTH	**(DRY BULB, WET BULB, & DEW POINT)**
PART C SURFACE WINDS	**RELATIVE HUMIDITY**
PART D CEILING VERSUS VISIBILITY	**PART F STATION PRESSURE**
SKYCOVER	**SEA LEVEL PRESSURE**

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY_____	APRIL_____	JULY_____	OCTOBER_____
FEBRUARY_____	MAY_____	AUGUST_____	NOVEMBER_____
MARCH_____	JUNE_____	SEPTEMBER_____	DECEMBER_____

874-29956

78 11 28 036

STATION NO ON SUMMARY	STATION NAME			LATITUDE	LONGITUDE	FIELD ELEV (FT)	CALL SIGN	WMO NUMBER
24112	MALMSTROM AFB MONTANA/GREAT FALLS			N 47 30	W 111 11	3523	GFA	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	HT. BARO.	
1	Great Falls Montana	AAF	Dec 67	Jul 72	N 47 30	W 111 11	3523 ft	3465 ft	24
2	Same	Same	Aug 72	Nov 77	Same	Same	Same	Same	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Dec 67	Located 760 ft from centerline of Rnwy, 2240 ft ESE of Base Operations	AN/GMQ-11	RO-2	15 ft	
2	Apr 68	1. Located 500 ft NW of Rnwy, 250 ft SW of Taxiway S.	Same	Same	Same	
		2. Located 1000 ft SW end of Rnwy 20, 500 ft SE from the centerline	Same	Same	Same	
3	Nov 77	1. Same	Same	Same	13 ft	
		2. Same	Same	Same	Same	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	

MAC... A.. 1.. 111 00- 0.75

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PART A   WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.

2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

A - 1

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

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WEATHER CONDITIONS

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JAN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR-SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		.4	.2	20.5		21.2	5.2		.6		5.8	930
	03-05		.4	.2	22.7		22.9	6.5		.5		7.0	930
	06-08		.4	.2	22.3		22.7	7.6		.9		8.3	930
	09-11		.3		19.0		19.4	10.4	.1	1.4		11.9	930
	12-14		.4		16.9		17.1	9.1		1.2	.1	10.4	930
	15-17				14.4		14.4	6.9	.2	.6	.2	8.0	930
	18-20		.5	.2	17.1		17.5	5.5		.2		5.7	930
	21-23		.2	.2	17.7		18.2	4.8		.6		5.5	930
TOTALS			.3	.1	18.8		19.2	7.0	.0	.8	.0	7.8	7440

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02				14.4		14.4	6.7		.4		7.1	849
	03-05		.1		13.2		13.3	6.8		.1		6.9	849
	06-08		.7		12.2		12.7	7.7		.4		7.7	843
	09-11		.2	.2	13.7		14.1	8.8	.2	.2	.1	9.0	845
	12-14		.5	.4	11.8		12.2	6.1	.5			6.1	849
	15-17		.1	.1	9.1		9.2	3.2	.1			3.2	849
	18-20		.1	.2	8.6		9.0	3.1				3.1	849
	21-23		.2	.1	13.2		13.4	3.9		.1		4.0	849
TOTALS			.2	.1	12.0		12.3	5.8	.1	.2	.0	5.9	6792

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WEATHER CONDITIONS

<u>24112</u> <u>MALMSTROM AFB MT/GREAT FALLS</u> <u>58-77</u>   MAR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		1.1		13.3		14.3	4.6		.4	.1	4.8	930
	03-05		1.4		12.2		13.4	4.7		.6	.1	5.1	930
	06-08		.8		12.9		13.7	5.4	.2	1.5		6.1	920
	09-11		.9		13.8		14.6	4.8	.4	1.6		5.7	930
	12-14		.2		12.4	.1	12.7	4.5	.5	1.2	.2	5.5	930
	15-17	.1	.4		11.0		11.3	3.1		1.6		3.8	930
	18-20		.9		10.3		11.2	2.4		1.6		3.7	930
	21-23		1.5		11.4		12.7	2.5		.9		3.3	930
TOTALS		.0	.9		12.2	.0	13.0	4.0	.1	1.2	.1	4.8	7440

DATA PROCESSING BRANCH
USAF ETAC
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WEATHER CONDITIONS

24112　　MALMSTROM AFB MT/GREAT FALLS　　　68-77　　　　　　　　　　　　　　APR
STATION　　　　STATION NAME　　　　　　　　　　　　　　　　YEARS　　　　　　　　MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02		2.9	.3	11.4		14.1	4.9		.2		5.1	900
	03-05		2.9	.3	12.7		15.8	5.2		.1		5.3	900
	06-08		3.3	.4	10.8		14.2	7.3		.2		7.3	900
	09-11		2.9		11.3		13.7	5.8		.3		5.8	900
	12-14	.1	3.6		10.8		13.1	4.6		.7		4.9	900
	15-17	.4	3.6		7.8		10.4	3.6		.4		3.8	900
	18-20	.3	3.9		5.6		8.4	2.2		.2		2.2	900
	21-23		4.0		10.0		12.8	3.4				3.4	900
TOTALS		.1	3.4	.1	10.1		12.8	4.6		.3		4.7	7200

DATA PROCESSING BRANCH
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WEATHER CONDITIONS

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	.3	10.3		.9		11.1	1.2				1.2	930
	03-05	.2	10.0		.6		10.4	1.5				1.5	930
	06-08		10.2		1.1		10.5	2.0				2.0	930
	09-11	.2	8.6		1.4		9.2	.9				.9	930
	12-14	1.1	11.1		1.4		11.8	1.1				1.1	930
	15-17	1.6	10.9		.6	.1	11.2	1.0				1.0	930
	18-20	.8	10.4		.3		10.5	.9				.9	930
	21-23	.6	11.2		.4		11.3	.8				.8	930
TOTALS		.6	10.3		.8	.0	10.8	1.2				1.2	7440

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DATA PROCESSING BRANCH
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WEATHER CONDITIONS

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	.1	7.3		.3		7.7	.6				.6	900
	03-05	.2	8.3		.3		8.7	1.7				1.7	900
	06-08		7.8		.3		8.1	3.8				3.8	900
	09-11	.1	8.7		.3		8.9	2.2				2.2	900
	12-14	1.2	8.4		.1		8.4	.2				.2	900
	15-17	3.3	10.2				10.2	.3				.3	900
	18-20	3.4	12.2			.1	12.2	1.0				1.0	900
	21-23	1.1	9.1		.3		9.2	.9				.9	900
TOTALS		1.2	9.0		.2	.0	9.2	1.3				1.3	7200

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	.1	2.8				2.8	.1				.1	930
	03-05	.5	5.1				5.1	.4				.4	930
	06-08	.9	3.3				3.3	1.1				1.1	930
	09-11	.4	4.2				4.2	.4				.4	930
	12-14	.3	1.6				1.6						930
	15-17	2.3	3.5		.1		3.5						930
	18-20	2.3	3.4		.3		3.4				.3	.3	930
	21-23	2.0	4.8		.2		4.8						930
TOTALS		1.1	3.6		.1		3.6	.3			.0	.3	7440

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	1.0	5.7				5.7	.3				.3	930
	03-05	.3	4.4				4.4	.8				.8	930
	06-08	.1	5.7				5.7	1.1				1.1	930
	09-11	.1	5.2				5.2	.8				.8	930
	12-14	.4	4.8				4.8	.8				.8	930
	15-17	2.7	6.1				6.1	.5				.5	930
	18-20	3.2	7.1				7.1	.6				.6	930
	21-23	2.0	8.9				8.9	.2				.2	930
TOTALS		1.2	6.0				6.0	.6				.6	7440

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02		4.4		1.9		6.0	1.2				1.2	900
	03-05	.3	5.2		2.4		7.7	1.6				1.6	900
	06-08	.1	5.6		2.2		7.6	1.6				1.6	900
	09-11		5.6		1.7		7.1	1.9				1.9	900
	12-14	.1	3.4		1.4		4.8	1.2				1.2	900
	15-17	.2	5.3		.9		6.1	.8				.8	900
	18-20	.3	4.8		1.2		5.7	1.1				1.1	900
	21-23		5.4		1.2		6.4	.6				.6	900
TOTALS		.1	5.0		1.6		6.4	1.3				1.3	7200

USAFETAC FORM JULY 64 0-10-5(0L A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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WEATHER CONDITIONS

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.1	3.0	.1	6.1		9.1	3.1				3.1	930
	03-05		3.4		6.5		9.6	4.0				4.0	930
	06-08		2.7		6.2		8.8	4.1				4.1	930
	09-11		3.0		5.6		8.6	3.7				3.7	930
	12-14		2.5		6.0		8.2	2.8				2.8	930
	15-17		3.4		3.5		6.9	1.9				1.9	930
	18-20		4.3		4.1		8.1	1.7				1.7	930
	21-23	.2	3.4	.2	6.7		10.2	3.3				3.3	930
TOTALS		.0	3.2	.0	5.6		8.7	3.1				3.1	7440

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		1.1	.2	10.3		11.4	4.8		.9		5.7	900
	03-05		.9		9.2		10.1	6.2		1.0		7.2	900
	06-08		1.6	.2	8.4		10.2	7.1		.4		7.6	900
	09-11		1.2	.1	10.8		11.9	8.3	.1	.4		8.6	900
	12-14		1.6		9.7		10.8	5.0	.2	.9		5.6	900
	15-17		1.7		8.1		9.6	3.2		1.4		4.0	899
	18-20		.8		7.6		8.2	3.3		.7		3.9	897
	21-23		.6	.3	6.7		7.5	3.6		.7		4.2	897
TOTALS			1.2	.1	8.9		10.0	5.2	.0	.8		5.9	7193

USAFETAC FORM JULY 64 0-10-5(0L A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02				17.2		17.2	4.9		.9		5.8	930
	03-05				17.0		17.0	5.3		.8		6.0	930
	06-08		.3		16.7		16.9	5.8	.2	.8		6.3	930
	09-11			.2	15.8		16.0	6.0	.6	.9		6.8	930
	12-14		.5		15.1		15.6	5.2	.8	1.3		5.9	930
	15-17		.3		12.4		12.7	4.8	.1	.6		5.3	930
	18-20				15.8		15.8	4.6	.1	.8		5.4	930
	21-23		.2	.2	16.9		17.3	5.1		.6		5.7	930
TOTALS			.2	.1	15.9		16.1	5.2	.2	.8		5.9	7440

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-77		ALL
STATION	STATION NAME		YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		.3	.1	18.8		19.2	7.0	.0	.8	.0	7.8	7440
FEB			.2	.1	12.0		12.3	5.8	.1	.2	.0	5.9	6792
MAR		.0	.9		12.2	.0	13.0	4.0	.1	1.2	.1	4.8	7440
APR		.1	3.4	.1	10.1		12.8	4.6		.3		4.7	7200
MAY		.6	10.3		.8	.0	10.8	1.2				1.2	7440
JUN		1.2	9.0		.2	.0	9.2	1.3				1.3	7200
JUL		1.1	3.6		.1		3.6	.3			.0	.3	7440
AUG		1.2	6.0				6.0	.6				.6	7440
SEP		.1	5.0		1.6		6.4	1.3				1.3	7200
OCT		.0	3.2	.0	5.6		8.7	3.1				3.1	7440
NOV			1.2	.1	8.9		10.0	5.2	.0	.8		5.9	7193
DEC			.2	.1	15.9		16.1	5.2	.2	.8		5.9	7440
TOTALS		.4	3.6	.0	7.2	.0	10.7	3.3	.0	.3	.0	3.6	87665

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PART A   ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.

        (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.

        (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

24112   MALMSTROM AFB MT/GREAT FALLS   46-77   ALL
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		6.4	.5	47.5		50.3	24.7	2.1	5.3	.1	27.3	990
FEB		.2	6.3	.8	40.8	.1	43.3	21.0	1.7	3.8		23.2	901
MAR		.3	12.1	.1	41.6	.1	47.6	19.2	1.1	3.4	.1	21.4	991
APR		2.2	28.9	.9	29.6	.5	43.3	16.2	.6	1.3		16.8	959
MAY		10.1	51.1		7.4	1.6	50.0	9.6	.9	.1	.2	10.6	992
JUN		20.7	51.7		.9	1.9	50.0	7.8			.2	8.0	958
JUL		22.7	37.2		.1	1.8	35.7	2.2	.1		.1	2.4	992
AUG		18.3	39.6		.1	1.0	37.3	2.7	.1		.3	3.0	991
SEP		4.2	35.8	.3	6.2	.4	36.0	6.6	.1		.1	6.7	959
OCT		.8	24.0	1.2	15.2	.3	31.4	9.3	.2	.3		9.5	992
NOV			14.3	1.0	29.2		37.6	14.7	.7	2.6	.3	15.9	958
DEC		.1	7.8	1.6	37.7		40.8	20.0	1.7	.1		21.4	960
TOTALS		6.6	26.3	.5	21.4	.6	42.1	12.8	.8	1.7	.1	13.8	11643

USAFETAC FORM JULY 64 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PART B   PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

* 1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.

* 2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

* Values for means and standard deviations do not include measurements from incomplete months.

NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.

(2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.

(3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:		U. S. Navy and National Weather Service (USWB)	
Beginning thru 1945	at 0800LST	Beginning thru Jun 52	at 0030GMT
Jan 46-May 47	at 1230GMT	Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT	Jun 57-present	at 1200GMT

74-29961

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION (FROM DAILY OBSERVATIONS)

24112   STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   45-77   YEARS

PRECIP. / SNOWFALL / SNOW-DEPTH	NONE / NONE / NONE	TRACE / TRACE / TRACE	.01 / 0.1-0.4 / 1	.02-.0 / 0.5-1.4 / 2	.06-.10 / 1.5-2.4 / 3	.11-.25 / 2.5-3.4 / 4-6	.26-.50 / 3.5-4.4 / 7-12	.51-1.00 / 4.5-6.4 / 13-24	1.01-2.50 / 6.5-10.4 / 25-36	2.51-5.00 / 10.5-15.4 / 37-48	5.01-10.00 / 15.5-25.4 / 49-60	10.01-20.00 / 25.5-50.4 / 61-120	OVER 20.00 / OVER 50.4 / OVER 120	PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MEAN	GREATEST	LEAST
JAN	47.6	25.5	4.6	9.1	6.6	4.4	1.4	.5	.1					26.9	992	.76	2.96	.09
FEB	53.8	23.1	4.2	8.7	4.8	4.7	1.2	.1						23.1	904	.53	1.65	.01
MAR	50.0	23.9	3.8	10.2	4.4	5.2	2.0	.4						26.1	992	.79	2.49	.09
APR	51.0	22.5	4.2	8.0	4.7	5.6	3.1	.5	.3					26.5	960	1.09	3.31	.06
MAY	47.2	22.1	2.7	7.0	4.0	8.1	4.3	2.7	1.6					30.7	991	2.56	6.55	.31
JUN	46.5	19.5	3.1	7.6	5.8	6.9	5.2	3.4	1.7	.2				34.0	959	2.80	5.19	.24
JUL	62.0	16.0	2.2	5.9	3.3	5.0	3.4	1.5	.5					22.0	992	1.31	3.75	TRACE
AUG	59.9	17.7	2.3	5.9	3.2	5.2	3.5	1.3	.6					22.4	992	1.41	4.89	.06
SEP	61.8	16.5	2.8	6.9	3.1	5.3	2.1	1.3	.3					21.8	960	1.01	3.41	.10
OCT	66.9	14.8	2.5	4.9	3.7	4.9	1.1	.8	.2					18.2	992	.76	2.79	TRACE
NOV	59.6	20.0	2.5	6.7	5.3	4.5	1.1	.2		.1				20.4	960	.69	3.93	.02
DEC	56.9	20.3	3.7	7.6	4.5	4.8	1.8	.3	.1					22.9	992	.74	2.01	.02
ANNUAL	55.3	20.2	3.2	7.4	4.4	5.3	2.5	1.1	.5	.0				24.6	11686	14.47	X	X

1210 WS FORM JUL 64 0-15-5 (OL.1)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

24112 MALMSTROM AFB MT/GREAT FALLS 45-77
STATION   STATION NAME   YEARS

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN.	FEB	MAR.	APR	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45												.65	
46	.11	.09	.35	.38	.67	1.28	.57	.26	.56	.56	.64	.17	1.28
47	.31	.27	.72	.06*	.20*	1.13	.05	.18	.34	.20	.25	.32	* 1.13
48	.14	.09	.20	.20	1.14	1.19	.80	.35	.15	.39	.19	1.30	1.30
49	.88	.31	.35	.04	1.72	.73	.84	.15	.26	.40	.01	.30	1.72
50	.25	.01	.50	.29	.22	.94	1.59	2.00	.32	.02	.31	.13	2.00
51	.27	.73	.42	2.02	1.06	.46	1.05	.66	.70	.20	.19	.30	2.02
52	.08	.37	.26	.38	.32	.87	.13	.52	.14	.12	.18	.09	.87
53	.05	.32	.16	.46	2.05	3.01	TRACE	.91	.73	.18	.08	.35	3.01
54	.13	.20	.11	.17	.22	2.24	.41	.82	.73	1.27	.06	.02	2.24
55	.99	.36	.29	.75	1.28	.45	1.05	.05	.07	.33	.46	.34	1.28
56	.20	.08	.12	.24	.31	.72	.51	.35	.18	.24	.11	.28	.72
57	.14	.25	.13	.17	1.79	.74	.24	.33	.65	.14	.10	.05	1.79
58	.10	.44	.15	.25	.64	.87	.67	.21	.11	.16	.23	.30	.87
59	.21	.21	.09	.22	1.41	1.02	.11	.40	.75	.33	3.19	.22	3.19
60	.07	.25	.03	.53	.57	.43	.16	1.35	.13	.05	.30	.06	1.35
61	.08	.27	.47	.18	.64	.23	.53	.12	.39	.12	.26	.12	.64
62	1.11	.14	.20	.38	1.84	1.15	.31	1.16	.28	.75	.18	.18	1.84
63	.18	.13	.31	.43	.80	.79	.43	.20	.14	.33	.10	.30	.80
64	.37	.24	.42	.31	1.64	3.12	.42	.62	.12	TRACE	.23	.38	3.12
65	.64	.23	.09	.35	.51	1.80	.67	.80	.74	TRACE	.50	.30	1.80
66	.62	.31	.53	.39	1.03	.75	.62	1.09	.22	1.04	.31	.25	1.09
67	.34	.13	.84	.67	.48	.80	.49	.12	1.23	.82	.17	.38	1.23
68	.37	.08	.36	.63	1.48	1.06	.10	1.14	1.13	.03	.80	.76	1.48
69	.33	.14	.30	.10	.76	1.86	.50	.12	.10	.19	.11	.32	1.86
70	.26	.37	.22	.39	1.58	1.91	.46	.45	.12	.24	.12	.15	1.91
71	.17	.14	.36	.30	.57	.52	.19	.80	.98	.20	.04	.19	.98
72	.33	.19	.25	.22	1.02	.13	1.28	.43	.36	.22	.14	.42	1.28
73	.09	.08	.12	1.88	.58	.54	.07	.49	.70	.38	.18	.52	1.88
74	.16	.05	.22	.33	.92	1.27	.17	1.22	.47	.25	.13	.10	1.57
MEAN													
S. D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77

STATION   STATION NAME   YEARS

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN.	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
75	.31	.08	.26	1.82	.99	.93	.72	.54	.34	.95	.26	.07	1.82
76	.11	.19	.27	.50	.31	1.21	.59	1.61	.21	.15	.40	.16	1.61
77	.20	.07	.18	.13	.77	1.11	1.41	.45	1.02	.34	.10		
MEAN	.300	.213	.290	.474	.946	1.111	.542	.622	.449	.331	.323	.296	1.618
S.D	.268	.145	.181	.498	.527	.720	.400	.479	.335	.314	.551	.248	.661
TOTAL OBS.	992	904	992	360	991	939	992	992	960	992	960	992	11686

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 44 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH / YEAR	JAN.	FEB.	MAR	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45												1.52	
46	.13	.19	.67	.54	2.03	3.51	1.49	.70	1.76	1.80	1.23	.41	14.46
47	.54	.79	1.18	.24*	.31*	2.02	.09	.30	.99	.36	1.25	.90	* 8.97
48	.73	.37	.93	.47	3.58	3.38	1.76	.59	.33	.39	.43	2.01	14.97
49	2.96	.73	1.00	.06	2.87	1.70	1.41	.24	.61	.93	.02	.76	13.29
50	.87	.01	1.88	1.13	.66	2.01	3.75	3.20	.44	.05	.93	.19	15.12
51	.42	.95	1.34	2.24	1.85	2.04	2.88	1.84	1.51	1.04	.35	1.67	18.13
52	.19	.93	.77	.40	1.18	1.11	.13	.76	.19	.12	.75	.09	6.64
53	.19	.61	.48	2.02	6.55	5.19	TRACE	1.40	1.06	.18	.08	1.04	18.80
54	.58	.45	.75	.64	.78	4.82	.72	1.96	1.82	1.72	.08	.02	14.34
55	1.11	1.21	1.52	2.52	4.02	1.12	3.75	.06	.10	.61	2.01	.86	18.89
56	.63	.21	.23	.68	1.44	2.22	1.19	1.20	.24	.75	.19	.58	9.56
57	1.38	.58	.47	.62	2.60	3.10	.49	1.07	1.31	.92	.38	.12	13.04
58	.32	1.65	.56	.52	1.34	4.63	2.26	.61	.15	.39	.63	1.01	14.07
59	.82	.53	.24	.67	3.26	2.38	.21	.60	1.55	1.08	3.93	.25	15.52
60	.20	.42	.09	1.60	2.25	.83	.45	3.74	.40	.05	.67	.10	10.80
61	.10	.33	.67	.84	1.61	.33	1.32	.24	1.58	.24	.79	.20	8.25
62	1.51	.47	.46	.52	5.31	2.70	1.45	1.70	.40	1.54	.28	.71	17.05
63	.81	.21	.36	1.03	1.70	3.21	.94	.42	.49	1.15	.17	.88	11.37
64	.40	.35	1.64	1.70	5.17	4.76	1.59	1.45	.39	TRACE	.70	.87	19.02
65	1.10	1.03	.45	1.57	1.43	5.19	1.77	1.95	1.92	TRACE	1.04	.66	18.11
66	1.71	.82	1.07	.91	1.21	2.38	1.31	1.67	.32	1.72	1.48	.83	15.43
67	.72	.48	2.49	2.21	1.88	3.42	1.53	.24	2.71	1.63	.49	1.72	19.52
68	1.16	.25	.83	1.32	2.88	3.32	.12	2.76	3.41	.04	.87	1.31	18.27
69	1.46	.35	.61	.30	1.48	4.79	1.37	.20	.18	1.03	.13	.50	12.40
70	.96	1.30	.62	.92	4.43	4.90	1.27	.49	.32	.66	.41	.42	16.30
71	.75	.46	.71	.44	2.59	.82	.35	1.50	1.60	.48	.13	.73	10.56
72	.89	.31	.62	.60	2.20	.24	1.96	1.56	.78	.71	.20	1.21	11.28
73	.09	.20	.26	2.87	1.04	1.35	.09	.99	1.41	.88	.86	1.32	11.36
74	.40	.12	.69	.63	4.33	1.74	.68	4.89	1.01	.43	.20	.19	15.31
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLs   45-77
STATION   STATION NAME   YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
75	.86	.31	.75	3.31	3.90	4.69	1.44	2.38	.73	2.79	.54	.20	21.90
76	.27	.28	.40	1.21	1.16	4.04	1.99	2.57	.31	.20	.59	.53	13.55
77	.71	.12	.57	.25	2.59	1.39	2.18	1.88	2.28	.56	.34		
MEAN	.780	.532	.791	1.093	2.559	2.804	1.311	1.412	1.009	.764	.692	.744	14.577
S.D.	.590	.382	.518	.827	1.479	1.537	.975	1.132	.827	.662	.746	.529	3.643
TOTAL OBS.	992	904	992	960	991	959	992	992	992	960	992	960	11686

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL
(FROM DAILY OBSERVATIONS)

24112   MALMSTRUM AFB MT/GREAT FALLS   46-77

STATION   STATION NAME   YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR-ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	50.9	23.5	9.7	10.1	2.6	1.5	.7	.8	.2					25.6	992	8.8	23.4	.9
FEB	56.6	21.3	8.5	9.5	1.9	1.0	.6	.3	.2					22.0	904	6.2	21.5	.1
MAR	56.9	20.5	8.2	8.8	2.7	1.5	.5	.8	.1					22.7	992	7.8	21.8	1.2
APR	68.4	15.3	6.4	5.6	1.9	1.0	.3	.6	.3	.1				15.3	960	6.4	20.6	TRACE
MAY	91.7	5.4	1.3	.8	.5	.2								2.8	992	.8	5.0	.0
JUN	99.0	.6		.2	.1		.1							.4	960	.2	4.5	.0
JUL	99.8	.2													992	TRACE	TRACE	.0
AUG	99.8	.2													992	TRACE	TRACE	.0
SEP	93.3	4.3	.7	.8	.3	.4		.1						2.4	960	1.0	10.0	.0
OCT	84.4	9.1	1.9	2.6	1.1	.3	.3	.2	.1					6.6	992	2.6	13.3	.9
NOV	68.4	15.0	4.7	6.9	2.4	1.5	.4	.5	.2					16.6	960	6.5	18.1	TRACE
DEC	60.2	18.6	7.8	6.9	3.5	2.0	.8	.1						21.1	961	7.4	18.3	.1
ANNUAL	77.4	11.2	4.1	4.3	1.4	.8	.3	.3	.1	.0				11.4	11657	47.7	☒	☒

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
SNOWFALL
(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   46-77
STATION   STATION NAME   YEARS

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN.	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	2.2	.9	3.5	.1	TRACE	.0	.0	.0	.0	1.4	6.5	1.7	6.5
47	3.1	2.7	7.2	.9	.0	.0	.0	.0	1.7	.2	2.3	2.3	7.2
48	1.4	.9	2.0	2.0	.4	.0	TRACE	.0	TRACE	3.9	1.9	2.4	3.9
49	3.8	3.1	3.6	TRACE	1.9	TRACE	.0	.0	TRACE	4.0	TRACE	3.0	4.0
50	2.8	.1	4.6	3.4	1.4	4.0	.0	.0	2.7	TRACE	3.2	1.3	4.6
51	2.8	9.8	4.3	1.3	1.0	1.0	.0	.0	.3	1.8	1.9	3.0	9.8
52	.8	3.7	2.6	.2	.0	.0	.0	.0	.0	.0	1.8	.9	3.7
53	.5	3.2	1.5	1.4	1.3	.0	.0	.0	.0	.0	TRACE	3.5	3.5
54	1.3	1.8	1.5	1.8	.3	TRACE	.0	.0	6.3	7.7	.7	.2	7.7
55	8.0	3.6	2.9	7.6	2.4	.0	.0	.0	TRACE	.8	5.8	3.4	8.0
56	2.6	.8	1.2	2.4	2.6	.0	.0	TRACE	TRACE	1.5	.7	3.1	3.1
57	3.7	2.5	.5	3.9	.0	.0	.0	.0	.5	1.6	1.0	.1	3.9
58	1.1	8.1	2.8	1.0	.0	.0	.0	.0	TRACE	.1	2.6	4.4	8.1
59	5.7	6.0	1.8	1.9	TRACE	.0	.0	.0	.8	3.3	9.5	3.5	9.5
60	.9	2.9	.6	5.5	2.4	.0	.0	.0	.0	TRACE	3.4	1.0	5.5
61	.8	.2	5.5	1.7	TRACE	.0	.0	.0	.1	.1	4.6	1.5	5.5
62	4.6	3.0	1.9	TRACE	TRACE	.0	.0	.0	1.6	.0	1.8	1.8	4.6
63	2.3	1.3	3.1	4.3	TRACE	.0	.0	.0	.0	.0	1.0	3.0	4.3
64	6.1	2.0	3.3	2.5	TRACE	.0	.0	.0	TRACE	TRACE	1.7	3.8	6.1
65	6.4	2.3	.9	2.5	.1	TRACE	.0	.0	2.1	.0	5.0	3.0	6.4
66	5.9	3.1	5.4	1.4	TRACE	.0	.0	TRACE	.0	2.2	3.1	3.0	5.9
67	3.6	1.3	6.3	7.0	3.3	.0	.0	.0	.0	.6	4.9	3.8	7.0
68	3.7	.5	5.6	6.3	.2	.0	.0	.0	3.4	.1	3.4	6.0	6.3
69	7.0	1.6	3.0	1.1	TRACE	2.2	.0	.0	.0	1.6	.5	3.2	7.0
70	2.5	3.9	2.4	9.6	1.4	.0	.0	.0	1.2	1.6	2.5	2.1	9.6
71	3.7	1.6	1.7	1.8	TRACE	.0	.0	.0	TRACE	2.2	1.6	2.8	3.7
72	5.2	5.0	3.6	2.1	TRACE	.0	TRACE	.0	.8	3.6	4.1	3.6	5.2
73	.9	.5	.6	14.5	TRACE	.0	.0	.0	3.2	1.6	5.3	3.5	14.5
74	4.6	.6	1.6	.9	TRACE	.0	.0	.0	.4	.5	TRACE	1.4	4.6
75	3.3	1.4	5.6	5.5	TRACE	.0	.0	.0	.0	5.9	1.7	.7	5.9
MEAN													
S.D													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
SNOWFALL
(FROM DAILY OBSERVATIONS)

24112 _STATION_   MALMSTROM AFB MT/GREAT FALLS   46-77 _YEARS_

24 HOUR AMOUNTS IN INCHES

MONTH \ YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
76	1.1	1.9	5.5	4.6	TRACE	TRACE	.0	.0	.0	.3	4.0	2.9	5.5
77	2.4	.7	2.5	1.1	1.6	.0	.0	.0	.0	3.4	2.5		
MEAN	3.28	2.53	3.10	3.13	.63	.23	TRACE	TRACE	.78	1.56	2.78	2.58	6.16
S.D.	2.027	2.201	1.826	3.171	.973	.808	.000	.000	1.416	1.895	2.144	1.298	2.412
TOTAL OBS.	992	904	992	960	992	960	992	992	960	992	960	961	11657

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/DL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

24112 MALMSTROM AFB MT/GREAT FALLS 46-77
STATION   STATION NAME   YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	3.0	2.6	4.5	.1	TRACE	.0	.0	.0	.0	4.7	10.3	4.1	29.3
47	5.4	7.9	11.6	1.2	.0	.0	.0	.0	2.4	.2	11.7	6.1	46.5
48	6.0	3.4	9.5	3.3	.4	.0	TRACE	.0	TRACE	3.9	3.3	6.0	35.8
49	11.4	7.3	9.1	TRACE	2.0	TRACE	.0	.0	TRACE	4.6	TRACE	8.3	42.7
50	9.1	.1	18.8	5.9	1.6	4.5	.0	.0	2.7	TRACE	9.3	1.4	53.4
51	4.3	12.2	16.5	2.2	1.5	1.0	.0	.0	.3	4.4	3.4	18.3	64.1
52	1.9	9.8	6.9	.2	.0	.0	.0	.0	.0	.0	7.5	.9	27.2
53	1.4	6.1	3.1	3.0	1.3	.0	.0	.0	.0	.0	TRACE	10.5	25.4
54	7.4	1.8	8.3	6.1	.3	TRACE	.0	.0	10.0	8.9	.7	.2	43.7
55	9.0	12.6	15.3	19.0	3.8	.0	.0	.0	TRACE	.8	18.1	8.3	86.9
56	6.0	2.1	2.3	5.6	5.0	.0	.0	TRACE	TRACE	2.2	1.4	8.3	32.9
57	16.3	6.1	2.0	6.4	.0	.0	.0	.0	.5	6.1	3.3	.1	40.8
58	1.7	21.5	6.3	1.6	.3	.0	.0	.0	TRACE	.1	7.8	14.2	53.2
59	20.5	13.7	3.6	3.9	TRACE	.0	.0	.0	.9	7.1	15.4	3.8	68.9
60	3.5	6.2	1.2	12.8	2.4	.0	.0	.0	.0	TRACE	10.6	3.1	39.8
61	1.5	.2	5.5	2.7	TRACE	.0	.0	.0	.1	.1	14.2	3.4	27.7
62	14.6	6.4	3.6	TRACE	TRACE	.0	.0	.0	1.6	.0	1.8	3.4	31.4
63	8.4	2.1	3.6	8.6	TRACE	.0	.0	.0	.0	.0	1.1	8.8	32.6
64	6.2	3.4	10.4	7.4	TRACE	.0	.0	.0	TRACE	TRACE	6.2	10.1	43.7
65	9.4	11.5	5.1	8.8	.1	TRACE	.0	.0	2.9	.0	8.5	7.4	53.7
66	16.8	7.7	10.7	4.0	TRACE	.0	.0	TRACE	.0	2.7	16.0	8.6	66.5
67	8.2	4.8	21.8	20.6	3.8	.0	.0	.0	.0	.6	8.4	17.2	85.4
68	11.5	1.7	9.4	8.5	.2	.0	.0	.0	3.4	.1	4.1	18.0	56.9
69	23.4	4.8	6.6	1.1	TRACE	2.2	.0	.0	.0	4.1	.7	5.4	48.3
70	8.9	15.2	5.5	17.4	2.2	.0	.0	.0	1.8	3.3	6.6	6.9	67.8
71	16.4	7.0	6.8	2.0	TRACE	.0	.0	.0	TRACE	4.8	2.1	11.4	50.5
72	17.6	6.7	9.4	2.2	TRACE	.0	TRACE	.0	.8	6.3	4.7	11.6	59.3
73	.9	2.1	1.7	20.5	TRACE	.0	.0	.0	3.9	1.7	15.1	9.1	55.0
74	10.4	1.7	5.4	2.1	TRACE	.0	.0	.0	.4	.7	TRACE	2.7	23.4
75	10.7	4.7	12.9	16.4	TRACE	.0	.0	.0	.0	13.3	6.5	2.2	64.7
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   46-77
STATION   STATION NAME   YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH / YEAR	JAN	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG	SEP.	OCT.	NOV.	DEC	ALL MONTHS
76	2.7	3.5	6.6	9.3	TRACE	TRACE	.0	.0	.0	.3	6.2	9.3	37.9
77	7.4	1.0	6.5	1.3	1.6	.0	.0	.0	.0	3.6	4.7		
MEAN	8.81	6.18	7.63	6.38	.82	.24	TRACE	TRACE	.99	2.64	6.49	7.39	48.24
S.D.	5.919	4.916	5.007	6.301	1.349	.884	.000	.000	2.005	3.201	5.239	5.004	16.792
TOTAL OBS.	992	904	992	960	992	960	992	992	960	992	960	961	11657

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

2

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH (FROM DAILY OBSERVATIONS)

24112 MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR-ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	34.3	12.0	12.2	9.3	7.0	15.5	7.9	1.6	.1					53.7	992			
FEB	49.0	11.8	9.4	7.1	6.1	11.6	4.3	.7						39.2	904			
MAR	57.6	9.8	7.2	5.6	5.7	10.9	2.7	.5						32.7	992			
APR	84.3	6.0	3.9	1.5	1.1	1.9	.9	.4						9.7	960			
MAY	98.2	1.2	.3	.2	.1									.6	992			
JUN	99.8			.1		.1								.2	960			
JUL	100.0														992			
AUG	100.0														992			
SEP	98.3	.8	.5	.3										.8	960			
OCT	92.2	3.5	1.5	1.2	.8	.6								4.1	992			
NOV	68.9	8.2	6.0	4.7	3.4	6.9	1.9							22.9	960			
DEC	48.0	10.2	9.6	9.2	6.9	9.4	6.6	.3						41.8	992			
ANNUAL	77.6	5.3	4.2	3.3	2.6	4.7	2.0	.3	.0					17.1	11688	⊠	⊠	

1210 WS FORM JUL 64 0-15-5 (OL.1)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

DAILY SNOW DEPTH IN INCHES

MONTH / YEAR	JAN	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP	OCT.	NOV.	DEC	ALL MONTHS
45												16	
46	2	2	0	0	0	0	0	0	0	2	.7	6	7
47	3	4	5	1	0	0	0	0	TRACE	TRACE	4	2	5
48	5	2	4	2	TRACE	0	0	0	0	0	1	2	5
49	27	7	6	TRACE	2	0	0	0	1	5	0	6	27
50	6	3	8	2	TRACE	4	0	0	2	3	4	4	8
51	3	10	15	1	TRACE	0	0	0	TRACE	3	3	11	15
52	10	7	7	TRACE	0	0	0	0	0	0	.7	6	10
53	1	2	6	TRACE	TRACE	0	0	0	0	0	TRACE	4	6
54	9	2	4	2	1	0	0	0	1	2	1	TRACE	9
55	8	4	6	13	2	0	0	0	0	TRACE	7	7	13
56	3	3	1	1	3	0	0	0	0	1	1	4	4
57	7	9	2	1	0	0	0	0	1	3	4	TRACE	9
58	1	11	8	TRACE	0	0	0	0	0	TRACE	4	9	11
59	8	17	2	1	0	0	0	0	0	3	11	2	17
60	5	5	4	8	0	0	0	0	0	0	.6	3	8
61	2	TRACE	4	2	0	0	0	0	0	1	.7	3	7
62	10	3	3	TRACE	0	0	0	0	0	0	2	4	10
63	7	7	TRACE	5	0	0	0	0	0	0	1	7	7
64	6	2	4	4	0	0	0	0	0	0	.6	9	9
65	7	5	5	3	0	0	0	0	2	0	5	3	7
66	12	4	6	1	0	0	0	0	0	0	8	7	12
67	4	1	7	7	1	0	0	0	0	0	5	8	8
68	9	3	7	5	0	0	0	0	0	2	0	10	10
69	18	14	8	0	0	2	0	0	0	2	1	4	18
70	5	5	9	7	0	0	0	0	1	3	.2	4	9
71	14	3	3	3	0	0	0	0	0	2	.2	5	14
72	10	5	4	TRACE	0	3	0	0	TRACE	4	.4	6	10
73	3	1	1	17	TRACE	0	0	0	TRACE	TRACE	.6	4	17
74	7	4	2	1	0	0	0	0	0	TRACE	.0	3	7
MEAN													
S.D													
TOTAL OBS.													

NOTE   * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

DATA PROCESSING BRANCH
USAF/ETAC/DL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

DAILY SNOW DEPTH IN INCHES

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
75	4	5	6	14	0	0	0	0	0	3	6	3	14
76	3	2	6	3	0	0	0	0	0	TRACE	5	4	6
77	7	1	7	3	0	0	0	0	0	1	4		
MEAN	7.1	4.8	5.0	3.3	.3	.2	.0	.0	.3	1.2	3.9	5.7	10.3
S.D.	5.285	3.867	3.068	4.337	.729	.780	.000	.000	.644	1.491	2.791	3.326	4.825
TOTAL OBS.	992	904	992	960	992	960	992	992	960	992	960	992	11688

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

PART C   SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

*1. **Extreme Values - Peak Gusts:** Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

   NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. **Bivariate percentage frequency tabulations:** Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

   A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

   a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.

   b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

   NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

* Values for means and standard deviations do not include measurements from incomplete months.

C

74-29062

DATA PROCESSING BRANCH
USAF/ETAC/DL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
SURFACE WINDS
(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   46-77
STATION   STATION NAME   YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46			SW *43	WNW*26	W *26	SSW*45	SSW*56	SSW*30	SW *38				
47		WSW*49						WSW 54	WSW 50	SW 45	SW 35		
48		W 61	S 59	SW 43	SW 49	W 37	W 56	SSW 43	SW 45	SSW 45	SSW 49	SSW 54	
49	SW 50	WSW 57	WSW 46	SSW*47	WNW 39	SSW 45	WSW*43	SSW 61	SW 57	WNW 62	WSW 63	W 52	WSW 63
50	WSW 49	WNW 45	WSW 54	WSW 63	W 44	WSW 43	W 50	WSW 44	WSW 42	WSW 50	WSW 49	SW 43	WSW 63
51	W 46	WSW 49	WNW 52	NNW 36	WNW 55	NNE 42	SW 54	WSW 30	WSW 33	S 47	W 48	SW 40	WNW 55
52	WSW 44	WSW 50	WNW 43	WSW*36	W *41	W 51	NW 58	WNW 43	WSW 41	WSW 43	W 44	WSW 47	NW 58
53	SSW 52	W 48	WSW 49	WSW 42	WSW 53	WNW 39	W 38	WSW 60	W 46	WNW 35	W 43	W 57	WSW 60
54	SW *50												
55													
56													
57											18* 25	11* 14	
58	18* 31	11* 13	18* 33	11* 29	11* 24	18/ 46	12* 25	11* 39	18* 37	11* 14	18* 27	11* 29	18/ 46
59	22* 23	12* 31	18* 27	22* 26	11* 28	34* 29	18* 25	18* 25	11* 25	11* 28	11* 33	18* 20	11* 33
60	11* 18	11* 33	12* 29	12* 25	11* 21	11* 33	11* 30	11* 35	11* 30	11* 30	18* 27	11* 31	11* 35
61	11* 22	12* 14	12* 17	18* 34	11* 28	11* 40	12* 25	11* 21	18* 34	11* 24		11* 18	11* 18
62	11* 31	18* 41	18* 33	18* 30	24* 29	18* 26	11* 39	11* 34	22* 17	11* 24	12* 9	11* 17	18* 41
63	18* 51	11* 24	33* 28	18* 31	18* 23	12* 26	33* 24	22* 26	18* 29	22* 20	18* 31		18* 51
64	18* 26	12* 35	11* 36	18/ 42	11* 34	12* 30	11* 32	18* 29	11* 25	11* 35	11* 17	18* 29	18/ 42
65	18* 41	12* 28	18* 31	11* 26	18* 40	11* 32	33* 26	12* 25	11* 27	18* 26	22* 35	11* 20	18* 41
66	18* 16	11* 26	18* 30	18* 39	32* 35	22* 28	22* 25	18* 24	12* 20	11* 27	11* 35	18* 25	18/ 39
67	18* 22	18* 40	12* 46	18* 24	18* 29	22* 28	18* 36	33/ 42	11* 29		11* 32	18* 33	
68	11* 42	22* 23	18* 25	18* 33	11* 37	11* 23	34* 50	22* 54	27/ 38	26/ 39	26/ 43	21/ 50	22* 54
69	21/ 33	22/ 38	24/ 38	24/ 43	30/ 39	4/ 33	28/ 41	25/ 50	21* 30	34* 28		25* 37	
70	24/ 50	28/ 54	24/ 44	26/ 48	24/ 34	26/ 78	24/ 48	28/ 40	24/ 50	23/ 41	25/ 46	24/ 46	26/ 78
71	25/ 40	24/ 45	27/ 44	5/ 49	26/ 45	26/ 36	28/ 38	24/ 49	36/ 42	29/ 50	30/ 49	25/ 44	29/ 50
72	26/ 50	24/ 55	25/ 50	25/ 40	22/ 37	30/ 39	27/ 54	32/ 30	25/ 31	24/ 35	22/ 48	25/ 55	24/ 55
73	25/ 38	24/ 31	26/ 43	28/ 40	26/ 48	13/ 53	26/ 42	30/ 62	25/ 35	25/ 44	25/ 40	23/ 44	30/ 62
74	27/ 53	27/ 40	25/ 54	28/ 40	26/ 42	2/ 36	29/ 44	29/ 32	25/ 36	28/ 39	24/ 44	24/ 54	25/ 54
75	24/ 43	24/ 36	24/ 40	35/ 31	26/ 35	24/ 33	24/ 50	24/ 41	28/ 35	27/ 45	25/ 51	23/ 46	25/ 51
MEAN													
S.D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)
USAF ETAC FORM 0-88-5 (OLA) $ (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

DATA PROCESSING BRANCH
USAF/ETAC/DL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES
SURFACE WINDS

(FROM DAILY OBSERVATIONS,

24112   MALMSTROM AFB MT/GREAT FALLS   46-77

STATION   STATION NAME   YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
76	24/ 48	24/ 50	25/ 45	36/ 39	26/ 41	27/ 54	22/ 47	25/ 36	32/ 32	23/ 38	23/ 42	23/ 45	27/ 54
77	23/ 41	25/ 44	25/ 45	20/ 36	26/ 35	27/ 39	22/ 64	2/ 46	33/ 32	23/ 39	22/ 48		
MEAN	45.9	46.9	47.1	42.1	42.6	44.0	47.4	44.9	40.3	43.6	46.4	48.4	58.2
S.D.	5.663	8.262	5.788	7.324	6.734	11.225	6.549	10.160	7.683	6.772	6.094	5.257	8.217
TOTAL OBS.	598	569	664	666	676	689	686	693	661	619	635	584	7739

NOTES * (BASED ON LESS THAN FULL MONTHS)
$ (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEAR		MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.6	1.1	.2								4.0	5.7
NNE	1.0	1.4	1.3	.4	.1							4.2	6.6
NE	1.1	1.5	1.0	1.2								4.7	7.1
ENE	.6	1.2										1.8	3.8
E	.4	.1										.5	3.0
ESE	.1	.1										.2	3.5
SE	.2											.2	2.0
SSE	.4											.4	2.5
S	.9	.6										1.5	3.6
SSW	.6	2.8	1.2	.1	.8	.4						5.9	8.7
SW	1.8	3.5	6.0	6.9	2.8	2.2						23.2	11.7
WSW	1.4	3.0	4.5	6.5	5.8	1.2	.1					22.5	12.6
W	.6	1.5	1.4	2.4	1.2	.1	.1					7.3	11.4
WNW	.4	.6	.5	.3								1.9	6.8
NW	1.0	.8	.6	.4								2.8	5.9
NNW	1.0	1.0	.8	.3								3.0	5.8
VARBL													
CALM												15.7	
	12.7	19.8	18.4	18.7	10.6	3.9	.2					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.1	1.2	.6	.1		.1					3.7	7.8
NNE	.8	1.4	1.6	.3	.1	.2						4.4	7.8
NE	1.3	1.4	.9	.6	.1							4.3	6.2
ENE	.3	.5										.9	3.3
E	.4		.1									.5	3.2
ESE													
SE	.2											.2	2.0
SSE	.3	.2	.1									.6	3.8
S	.8	.2	.2	.1								1.3	4.5
SSW	1.1	2.7	1.2	1.6	1.0	.2						7.7	9.2
SW	1.4	5.6	5.8	6.2	1.6	1.7	.2					22.6	10.8
WSW	.9	3.4	5.2	6.7	3.9	1.8	.1	.1				22.0	12.6
W	.8	2.5	1.7	3.1	.6	.3						9.0	10.0
WNW	.2	.6	.3	.4								1.6	7.3
NW	.1	.6	.5									1.3	6.0
NNW	.5	1.2	1.4	.3								3.4	6.6
VARBL													
CALM												16.3	
	9.6	21.5	20.2	20.1	7.4	4.3	.4	.1				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS		68-77		JAN
STATION	STATION NAME		YEARS		MONTH
	ALL WEATHER				0600-0800
	CLASS				HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	1.5	1.2	.8		.1						4.0	7.8
NNE	1.0	1.9	1.2	.4	.1							4.6	6.5
NE	1.1	1.7	1.0	.5	.1							4.4	6.6
ENE	.2	.4	.3									1.0	5.1
E	.8	.1										.9	2.4
ESE													
SE	.1											.1	3.0
SSE	.2	.4										.6	3.7
S	.8	.5	.4	.2								1.9	5.6
SSW	.5	2.2	1.3	1.0	.5	.1						3.6	8.4
SW	1.6	4.6	6.2	5.2	1.3	1.8	.4					21.2	11.0
WSW	1.1	3.7	4.8	6.9	4.5	2.0	.1	.1				23.2	12.9
W	1.0	1.9	3.2	2.9	1.1	.3						10.4	10.2
WNW	.1	.8	.5	.2								1.6	7.0
NW	.4	1.2	.5	.1	.1							2.4	6.1
NNW	1.1	.9	.5	.1								2.6	4.8
VARBL													
CALM												15.5	
	10.3	21.8	21.3	18.3	7.7	4.4	.5	.1				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS ___ 930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.3	.9	.5	.1							3.5	6.9
NNE	1.4	2.2	2.2	1.3	.1							7.1	7.3
NE	1.5	1.5	1.3	.2	.1							4.6	5.6
ENE	.6	.9	.4									1.9	4.8
E	.3	.2										.5	3.0
ESE													
SE	.1											.1	2.0
SSE	.4			.1								.5	5.2
S	.2	.9	.1	.1								1.3	4.9
SSW	1.3	1.5	.8	1.2	.9	.3						5.9	9.6
SW	1.4	3.0	4.9	8.3	3.0	1.1	.4	.1				22.3	12.1
WSW	.8	2.6	4.3	7.1	4.3	2.8	1.2					23.0	14.4
W	.5	1.4	2.5	2.6	.6	.1	.2					8.0	10.6
WNW	.4	1.3	.2	.1								2.0	5.2
NW	.3	.5	.6	.3	.1							1.9	7.6
NNW	.6	1.3	.9									2.8	5.6
VARBL													
CALM												14.4	
	10.8	18.5	19.0	21.8	9.2	4.3	1.8	.1				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.0	1.4	1.1	.3	.1						4.7	8.5
NNE	1.2	1.8	1.1	1.0	.1	.1						5.3	7.2
NE	2.2	1.7	1.5	.4								5.8	5.7
ENE	1.1	.8	.2									2.0	3.5
E	.8	.2	.2									1.2	3.6
ESE	.3	.3										.6	3.5
SE		.1										.1	4.0
SSE													
S	.1	.2			.1							.4	7.3
SSW	.9	.2	.3	1.6	1.2	.3						4.5	12.7
SW	1.1	2.4	3.5	6.8	3.4	2.6	.2	.1				20.1	13.6
WSW	.2	1.6	4.2	6.9	5.7	3.4	1.0					23.0	15.7
W	.4	1.3	2.3	3.9	1.7	1.2	.3	.1				11.2	13.6
WNW	.1	1.1	1.4	.5	.1	.1						3.3	8.8
NW	.3	.8	.1	.1	.1							1.4	5.9
NNW	.9	.9	1.0	.2								2.9	5.7
VARBL													
CALM	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	13.3	
	10.3	14.3	17.2	22.5	12.8	7.8	1.5	.2				100.0	10.3

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.0	1.1	.8	.2							4.9	7.0
NNE	1.3	1.6	.9	1.3								5.1	7.1
NE	1.6	2.4	1.1	.2	.1							5.4	5.5
ENE	2.0	1.1	.5									3.7	4.0
E	.8	.1										.9	2.4
ESE	.3											.3	2.3
SE	.2	.2	.1									.5	4.2
SSE	.6											.6	2.3
S	.6	1.0	.1	.1								1.8	4.1
SSW	.9	.9	1.3	.9	.2							4.1	7.8
SW	.6	1.5	4.1	6.0	2.7	1.3	.1					16.3	12.7
WSW	.5	2.2	3.9	8.0	4.1	3.0	.6	.1				22.4	14.6
W	.5	1.2	2.9	4.4	2.0	1.1	.2	.1				12.5	13.2
WNW	.3	.4	.8	.5								2.0	8.2
NW	.4	.9	.2	.2	.3							2.0	7.7
NNW	1.0	1.2	.4	.1								2.7	4.8
VARBL													
CALM												14.7	
	12.7	16.6	17.3	22.5	9.7	5.4	1.0	.2				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	1.3	1.5	.5	.1							4.0	7.3
NNE	1.8	1.5	1.0	.6	.3	.1						5.4	6.9
NE	1.3	1.7	1.3	.4								4.7	5.6
ENE	.8	.8	1.2									2.7	5.6
E	.6	.3										1.0	3.0
ESE		.1	.1									.2	6.0
SE	.3	.2										.5	2.8
SSE	.4	.3										.8	3.6
S	1.5	.6	.5	.1	.1							2.9	4.6
SSW	.3	2.3	1.0	1.2	.1		.1					4.9	8.4
SW	1.1	3.2	6.2	4.9	2.5	1.0	.2					19.1	11.2
WSW	.5	2.2	4.8	6.9	4.9	2.2	.5					22.0	13.9
W	.5	2.2	2.8	2.2	1.1	.1	.1	.1				9.0	10.1
WNW	1.0	.5	.3	.1								1.9	4.4
NW	.6	1.1	.1	.1								1.9	4.6
NNW	.8	.4	.5	.1	.3							2.2	7.6
VARBL													
CALM												16.7	
	12.2	18.7	21.4	17.2	9.5	3.3	1.0	.1				100.0	8.2

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	.6	1.1	.8	.1	.2						3.9	8.1
NNE	1.7	1.9	1.8	.2	.1							5.8	5.7
NE	1.2	1.8	.9	.8	.2							4.8	6.9
ENE	.6	.9	.2	.3								2.0	5.6
E	.5	.1										.6	2.5
ESE	.1											.1	2.0
SE	.2											.2	3.0
SSE	.6	.1	.1	.1								1.0	3.9
S	1.2	.9	.2	.1								2.4	4.2
SSW	.5	1.7	.9	.6	.6	.3						4.7	9.7
SW	1.7	4.6	5.5	6.0	3.2	1.3	.2					22.6	11.2
WSW	1.0	2.0	5.3	6.5	4.7	2.2	.1					21.7	13.4
W	.9	1.5	2.2	2.3	1.3	.3	.2					8.6	11.3
WNW	.4	.8	.6	.2								2.0	6.6
NW	.5	1.2	.5	.1								2.4	5.5
NNW	.5	.6	.6									1.8	5.5
VARBL													
CALM												15.3	
	12.9	18.8	19.9	18.0	10.3	4.3	.5					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.3	1.2	.7	.1	.1	.0					4.1	7.4
NNE	1.3	1.7	1.4	.7	.1	.1						5.2	6.9
NE	1.4	1.7	1.1	.6	.1							4.9	6.1
ENE	.8	.8	.4	.0								2.0	4.5
E	.6	.1	.0									.8	2.9
ESE	.1	.1	.0									.2	3.5
SE	.2	.1	.0									.3	3.1
SSE	.4	.1	.0	.0								.6	3.6
S	.8	.6	.2	.1	.0							1.7	4.6
SSW	.8	1.8	1.0	1.0	.7	.2	.0					5.4	9.3
SW	1.3	3.6	5.3	6.3	2.6	1.6	.2	.0				20.9	11.7
WSW	.8	2.6	4.6	6.9	4.7	2.3	.5	.0				22.5	13.8
W	.7	1.7	2.4	3.0	1.2	.4	.1	.0				9.5	11.4
WNW	.4	.8	.6	.3	.0	.0						2.1	6.9
NW	.5	.9	.4	.2	.1							2.0	6.2
NNW	.8	.9	.8	.1	.0							2.7	5.8
VARBL													
CALM												15.2	
	11.4	18.7	19.3	19.9	9.7	4.7	.9	.1				100.0	8.7

TOTAL NUMBER OF OBSERVATIONS   7440

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	.6	.5	.5								2.2	6.5
NNE	.6	1.5	.9	.2								3.3	6.0
NE	1.1	1.5	.6	.1	.1							3.4	5.6
ENE	.4	.6	.1									1.1	4.6
E	.2		.2	.1								.6	7.2
ESE													
SE	.4											.4	2.3
SSE	.1	.2										.4	3.7
S	1.2	.9										2.1	3.4
SSW	1.1	1.6	1.9	.7	.6	.1						6.0	8.3
SW	2.4	4.9	8.8	8.0	1.1	.9						26.1	9.7
WSW	.7	3.5	5.2	6.9	3.1	1.3	.2					21.0	11.9
W	1.1	2.1	2.1	2.8	.6	.2						9.0	9.4
WNW	.4	.4	.6	.1								1.4	6.1
NW	.1	.4	.8									1.3	7.4
NNW	.5	.1	.9	.2	.1							1.9	8.0
VARBL													
CALM												19.9	
	10.7	18.5	22.7	19.8	5.5	2.6	.2					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS — 849

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	.9	.1	.1	.1							1.8	5.7
NNE	.4	1.3	1.4	.8								3.9	8.0
NE	.5	.8	.4	.2								1.9	5.4
ENE	.6	.5	.2									1.3	4.0
E	.4	.1										.5	3.0
ESE	.1											.1	3.0
SE	.1											.1	2.0
SSE	.2	.2		.1								.6	5.0
S	.6	.9	.4									1.9	4.6
SSW	2.1	1.6	1.6	1.4	.1							6.9	6.9
SW	2.6	3.9	10.2	7.8	1.8	.2	.2					26.7	9.8
WSW	.8	3.5	4.9	6.5	3.2	.7	.4					20.0	11.7
W	1.3	2.7	2.2	2.5	1.2	.2						10.1	9.5
WNW	.9	.7	.6	.2								2.5	5.8
NW	.5	.7	.8	.2								2.2	6.6
NNW	.1	.9	.1	.1	.1							1.4	6.8
VARBL													
CALM												18.0	
	11.7	19.0	23.1	20.0	6.5	1.2	.6					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS   849

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24¹¹2	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-)800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	.9	.5	.1								2.0	5.5
NNE	.7	.9	.6	1.1								3.3	7.9
NE	.5	1.5	.4	.5								2.8	6.3
ENE		.4	.1									.5	5.8
E	.1	.2										.4	4.3
ESE			.1									.1	7.0
SE	.1	.1										.2	3.5
SSE	.2	.4										.6	3.6
S	.9	.9	.7	.2								2.8	5.4
SSW	1.1	2.2	1.3	1.9	.9	.1						7.5	9.2
SW	2.1	4.6	8.0	8.0	.9	.4						24.0	9.5
WSW	2.1	3.1	5.8	6.6	2.1	.7						20.4	10.
W	1.4	3.7	3.1	2.4	.4	.1						11.0	.2
WNW	.2	.6	.4	.5								1.6	6.8
NW	1.1	.5	.5	.1	.2	.1						2.5	7.1
NNW	.6	.6	.2	.1								1.5	5.1
VARBL													
CALM												18.7	
	11.7	20.6	21.6	21.4	4.6	1.4						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS   849

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER   0900-1100

CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	1.1	.7	.6	.1							2.9	7.7
NNE	1.3	1.3	1.1	1.1								4.7	6.9
NE	.5	1.3	.8	.9								3.5	7.7
ENE	.8	1.1	.4	.2								2.5	5.2
E	.2	.1										.4	3.7
ESE		.1										.1	4.0
SE	.1	.1										.2	3.5
SSE	.5	.2										.7	3.7
S	.1	.4	.5	.1	.2							1.3	9.2
SSW	.8	.2	.8	1.2	1.1							4.1	11.7
SW	1.5	1.9	4.8	10.5	3.4	1.1	.4	.1				23.7	12.7
WSW	1.1	2.0	6.7	8.5	2.6	1.5	.5					22.9	12.6
W	1.8	1.9	2.2	2.6	1.1	.9	.2					10.7	11.1
WNW	.7	.5	.7	.4	.1							2.4	7.0
NW	.6	.5	.5									1.5	5.2
NNW	.4	.8	.7	.1	.1							2.1	6.6
VARBL													
CALM												16.3	
	10.8	13.4	19.9	26.1	8.7	3.5	1.1	.1				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS   849

USAFETAC FORM JUL 66 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME		YEARS	MONTH
	ALL WEATHER			1200-1400
	CLASS			HOURS (L.S.T.)
	CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.5	1.9	.5								4.7	6.8
NNE	.9	2.1	1.8	.9								5.8	6.6
NE	.9	2.4	1.6	.5								5.4	6.5
ENE	1.1	1.4	.1	.1	.1							2.8	4.9
E	1.2	.6	.2									2.0	3.9
ESE			.1									.1	9.0
SE	.1		.2									.4	6.7
SSE	.1											.1	2.0
S	.2	.1	.4	.1								.8	6.3
SSW	.4	.8	.7	1.8	.8	.4	.1					4.9	12.3
SW	.2	.9	3.8	8.4	3.3	1.6	.4					18.6	14.2
WSW	.6	2.0	3.4	7.7	5.2	2.7	.9	.2				22.7	15.3
W	.5	1.1	3.4	4.0	1.9	1.	.2	.1				12.8	14.0
WNW	.4	.9	.9	.7	.5	.4	.1					3.9	11.3
NW	.2	.8	.5	.2	.1	.1						2.0	8.6
NNW	1.3	1.1	1.1	.5								3.9	6.2
VARBL													
CALM												9.0	
	9.0	15.8	20.1	25.3	11.9	6.8	1.8	.4				100.0	10.7

TOTAL NUMBER OF OBSERVATIONS   849

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.5	2.6	1.2	.8								6.1	5.9
NNE	.8	3.3	1.3	.5	.2							6.1	6.5
NE	1.3	3.5	2.4	.9								8.1	6.2
ENE	1.3	2.0	.2									3.5	4.2
E	1.6	.8		.1								2.6	3.7
ESE		.1	.4									.5	7.0
SE		.1	.1									.2	8.0
SSE	.1											.1	2.0
S	.5	.5	.4	.4	.1							1.8	7.4
SSW	.4	.7	1.4	1.2	.5							4.1	9.9
SW	.8	2.2	6.8	5.3	3.3	.6						19.1	11.7
WSW	.2	.9	4.2	8.0	3.2	1.6	.2	.1				18.6	14.1
W	.2	.8	2.4	2.9	2.1	1.4	.1					10.0	14.3
WNW	.1	1.3	.7	.9	.9	.1						4.1	11.6
NW	.5	.9	.5	.7		.1						2.7	8.1
NNW	.8	1.4	1.3	.9								4.5	7.5
VARBL													
CALM												7.8	
	10.2	21.3	23.2	22.7	10.4	3.9	.4	.1				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS   849

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.4	1.2	.2								4.4	5.0
NNE	1.8	2.2	1.9	.4	.1							6.4	5.9
NE	1.1	1.9	1.9	.6								5.4	6.3
ENE	.7	1.3										2.0	3.9
E	.5	.4										.8	3.3
ESE	.2											.2	3.0
SE	.1	.1	.1	.1								.5	7.0
SSE	.5	.2	.1									.8	3.9
S	.5	2.0	.6	.2	.1							3.4	5.8
SSW	1.2	4.2	2.7	1.5	.1							9.8	7.2
SW	.6	3.3	6.2	4.5	.8	.7	.1					16.3	10.4
WSW	.4	2.1	4.1	6.1	2.6	.2						15.5	11.8
W	.9	1.3	3.7	4.1	.2	.1						10.4	10.0
WNW	.7	1.3	1.1	.4								3.4	6.6
NW	.7	1.1	.7	.4								2.8	6.3
NNW	.2	.4	.1	.8								1.5	9.7
VARBL													
CALM												16.4	
	11.5	23.2	24.4	19.3	4.0	1.1	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS   849

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4	1.2	.6	.2							2.7	9.5
NNE	1.3	1.6	1.3	.2								4.5	5.7
NE	1.4	1.4	.8	.4								4.0	5.4
ENE	.5		.1									.6	4.0
E	.1		.1									.2	6.0
ESE	.2		.1									.4	4.3
SE		.1	.1									.2	6.0
SSE	.2	.2	.2									.7	4.8
S	.8	1.6	.5	.2	.1							3.3	5.7
SSW	1.3	2.9	2.6	1.4	.6	.1						9.0	8.1
SW	.7	4.6	9.4	5.1	2.0	.4						22.1	9.9
WSW	.8	3.3	5.5	6.8	1.3	.6						18.4	10.8
W	.9	2.6	1.9	2.6	.5	.1						8.6	8.9
WNW	.7	.7	.6	.1	.1							2.2	6.1
NW	.4	.8	1.1	.2								2.5	6.8
NNW	.6		.5	.1								1.2	6.5
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	19.4	
	10.4	20.4	26.0	17.8	4.8	1.2						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS ___ 849

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS		8-77		FEB
STATION	STATION NAME		YEARS		MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.2	.9	.4	.1							3.4	6.5
NNE	1.0	1.8	1.3	.6	.0							4.7	6.6
NE	.9	1.8	1.1	.5	.0							4.3	6.2
ENE	.7	.9	.2	.0	.0							1.8	4.5
E	.5	.3	.1	.0								.9	4.0
ESE	.1	.0	.1									.2	5.4
SE	.1	.1	.1	.0								.3	5.2
SSE	.3	.2	.0	.0								.5	4.0
S	.6	.9	.4	.2	.1							2.2	5.7
SSW	1.0	1.8	1.6	1.4	.6	.1	.0					6.6	8.8
SW	1.4	3.3	7.3	7.2	2.1	.7	.1	.0				22.1	10.9
WSW	.8	2.6	5.0	7.1	2.9	1.2	.3	.0				19.9	12.4
W	1.0	2.0	2.6	3.0	1.0	.6	.1	.0				10.3	10.8
WNW	.5	.8	.7	.4	.2	.1	.0					2.7	8.3
NW	.5	.7	.7	.2	.0	.0						2.2	7.1
NNW	.6	.7	.6	.4	.0							2.3	7.0
VARBL													
CALM												15.7	
	10.7	19.0	22.6	21.6	7.1	2.7	.5	.1				100.0	8.2

TOTAL NUMBER OF OBSERVATIONS   6792

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		HAR
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	.9	1.0	.6		.1						3.3	7.9
NNE	1.1	1.4	1.0	.6								4.1	6.1
NE	.2	1.6	.6	.2								2.7	6.4
ENE	.3	.5										.9	4.1
E	.2	.1	.1									.4	4.5
ESE		.2										.2	4.0
SE	.2	.5										.8	3.7
SSE	.2	.4	.1									.8	4.4
S	.8	1.5	.5									2.8	5.2
SSW	1.6	4.3	1.5	1.5	.1							9.0	6.5
SW	1.8	6.6	8.8	5.4	.6							23.2	8.5
WSW	1.3	4.7	5.3	7.7	1.7	.8	.1					21.6	10.6
W	.6	2.3	2.6	1.2	.2	.1						7.0	8.0
WNW	.2	.9	.4	.1								1.6	6.2
NW	.5	.4	1.0	.2								2.2	6.6
NNW	.5	.8	.4	.2	.2	.2						2.4	9.2
VARBL													
CALM												17.1	
	10.4	27.1	23.3	17.8	2.9	1.2	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	1.0	1.0	.3	.2	.1						2.9	8.4
NNE	.9	1.9	1.0	.5								4.3	6.2
NE	.6	.4	.6	.3								2.0	6.4
ENE	.9	.2										1.1	2.6
E	.1	.2										.3	3.3
ESE													
SE	.1	.4		.1								.6	5.8
SSE	1.0	.3	.1									1.4	3.3
S	1.4	.8	.5	.3								3.0	5.1
SSW	1.4	4.0	1.7	.6								7.7	6.1
SW	2.3	6.8	8.4	4.8	1.1	.1						23.4	8.5
WSW	1.4	3.3	7.7	6.3	1.9	.8						21.5	10.2
W	1.2	1.8	2.4	1.4	.6		.1					7.5	8.5
WNW	.8	1.1	.5	.4								2.8	6.0
NW	.1	.8	.5	.1								1.5	7.1
NNW	.6	.3	.5	.4		.2						2.2	8.5
VARBL													
CAIM												17.6	
	13.0	23.3	25.1	15.8	3.9	1.2	.1					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	.6	.8	.8	.4							3.0	9.6
NNE	.8	1.7	1.3	.5	.2							4.5	7.5
NE	.6	1.1	.8	.2								2.7	5.8
ENE	1.0	.4	.1									1.5	3.4
E	.1	.4										.5	4.0
ESE	.1											.1	2.0
SE	.1											.1	2.0
SSE	.2	.1	.1	.1								.5	6.0
S	1.2	1.1	.8	.3								3.3	5.5
SSW	1.5	3.4	1.8	1.1								7.8	6.6
SW	1.9	5.8	9.9	5.4	1.3	.2						24.5	8.9
WSW	1.2	4.4	8.2	7.6	1.8	.6	.1					24.0	10.4
W	1.0	2.6	1.8	1.0	.1	.2						6.7	7.6
WNW	.3	.9	.4	.4	.1	.2						2.4	9.1
NW	.3	.6	.3	.2								1.5	6.4
NNW	.3	.2	.6	.3								1.5	7.7
VARBL													
CALM												15.3	
	11.1	23.4	26.9	18.0	4.0	1.3	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS _____ 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.5	1.8	2.2	.3							5.7	9.4
NNE	1.3	.9	1.6	.6	.3							4.7	7.3
NE	1.1	.9	1.0	.1								3.0	5.4
ENE	1.2	.8		.1								2.0	3.7
E	.4	.2		.1								.8	4.6
ESE	.1	.1										.2	3.0
SE			.1									.1	7.0
SSE	.3	.1										.4	2.8
S	.4	.2	.2	.1	.1							1.1	7.0
SSW	1.1	1.4	1.2	2.6	1.5	.1						7.8	11.0
SW	.5	2.3	3.3	7.7	4.2	1.0						19.0	13.0
WSW	.5	2.0	3.9	11.9	4.8	2.5	.5					26.2	14.4
W	.3	2.8	2.2	3.3	2.4	1.0	.2					12.2	12.6
WNW	.2	1.1	.9	.5	.1							2.8	8.1
NW	.2	1.2	.9	.1	.1	.1						2.6	7.5
NNW	.3	.6	.6	.3	.2	.1						2.3	8.8
VARBL													
CALM												9.0	
	8.9	15.1	17.6	29.8	14.1	4.7	.8					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	.8	1.3	3.3	.5							6.7	10.9
NNE	.1	2.0	1.8	.9	.2							5.1	8.1
NE	1.2	1.9	1.5	.8								5.4	6.6
ENE	.6	1.2	.2	.1								2.2	4.7
E	.6	.2	.1									1.0	3.3
ESE	.1	.2										.3	4.0
SE	.2											.2	<.0
SSE	.3	.2	.2									.8	5.0
S	.3	.4	.3	.1	.3							1.5	8.1
SSW	.1	.8	1.0	1.8	.9	.3						4.8	12.6
SW	.2	1.0	4.3	4.7	4.3	1.2	.2					15.9	14.0
WSW	.4	1.7	3.1	6.3	6.6	3.7	.6	.2				22.7	16.0
W	.3	1.4	2.3	4.3	2.6	3.0	.2					14.1	14.8
WNW	.5	.8	1.9	1.6	.5							5.4	9.8
NW	.6	.6	1.3	.5	.3	.1						3.5	9.0
NNW	.3	1.0	1.8	1.8	.3							5.3	9.9
VARBL													
CALM												5.3	
	6.9	14.2	21.2	26.3	16.6	8.3	1.1	.2				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS ___930___

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.5	2.0	2.3	1.0	.1						8.2	9.7
NNE	1.3	1.9	1.8	2.0	.4	.1						7.6	8.4
NE	.8	1.8	2.6	.4								5.6	6.7
ENE	.4	1.6	.5	.1								2.7	5.7
E	.3	.5	.5									1.4	5.6
ESE	.2		.2									.4	6.0
SE	.3	.1	.4	.1								1.0	6.4
SSE	.2	.1	.4	.1								.9	6.6
S	.4	.3	.6	1.0	.1							2.5	9.0
SSW	.3	1.4	1.9	1.8	.8							6.2	10.3
SW	.5	1.7	1.8	5.8	2.2	.8						12.8	12.8
WSW	.2	1.1	2.9	7.5	4.0	2.2	.6	.1				18.6	15.4
W	.3	.8	2.3	4.0	3.8	2.4						13.4	15.4
WNW	.2	.3	1.6	1.4	.8	.3						4.6	12.0
NW	1.1	.6	1.7	1.5	.2							5.2	8.4
NNW	.4	1.4	1.3	1.1	.2							4.4	8.5
VARBL													
CALM												4.5	
	8.4	15.3	22.8	29.1	13.3	5.8	.6	.1				100.0	11.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.0	1.8	1.7	.4	.1						6.8	9.1
NNE	1.1	2.6	1.9	1.3	.3							7.2	7.7
NE	1.6	2.2	1.5	.1								5.4	5.4
ENE	.8	.8	.2	.1								1.8	4.6
E	.8	.3										1.1	3.0
ESE	.2	.3										.5	3.8
SE	.2	.1	.1									.4	4.5
SSE	.4	.3		.1								.9	4.6
S	1.6	2.2	1.5	.6								5.9	6.0
SSW	.8	3.8	3.3	.8	.2							8.8	7.1
SW	.5	4.1	3.8	3.2	.9	.5						13.0	9.7
WSW	.3	1.7	5.1	6.8	.9	.2	.2					15.2	11.3
W	.2	1.4	4.0	5.6	1.7	.3		.1				13.3	11.9
WNW	.5	.3	.9	.8								2.5	8.2
NW	.1	.3	.4									.9	6.0
NNW	.8	1.6	.9	1.0	.3							4.5	7.7
VARB!													
CALM												11.8	
	10.5	24.0	25.4	22.0	4.7	1.2	.2	.1				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.4	.9	.9	.2	.1						4.0	8.3
NNE	1.1	1.3	1.6	1.0	.3							5.3	7.7
NE	.6	2.2	1.3	.3								4.4	6.1
ENE	.2	.6										.9	4.4
E													
ESE	.1		.1									.2	6.0
SE	.1	1.3	.2	.1								1.7	5.7
SSE	.2	.6	.2									1.1	4.9
S	1.6	2.9	1.6	.2								6.3	5.2
SSW	.8	4.7	2.0	.6	.4							8.6	6.8
SW	1.0	5.5	7.8	2.9	1.0	.1						18.3	8.5
WSW	.4	2.5	6.3	8.1	.9	.4	.2					18.8	10.9
W	.8	2.0	3.2	2.7	.2							8.9	9.0
WNW	.2	.6	.4	.4								1.7	6.9
NW	.4	.6	.6	.1								1.8	6.0
NNW	.6	1.0	1.2	.3	.2							3.3	7.3
VARBL													
CALM												14.6	
	8.7	27.3	27.6	17.6	3.2	.6	.2					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.1	1.3	1.5	.4	.1						5.1	9.4
NNE	.9	1.7	1.5	.9	.2	.0						5.3	7.5
NE	.8	1.5	1.2	.3								3.9	6.1
ENE	.7	.8	.1	.1								1.6	4.4
E	.3	.3	.1	.0								.7	4.2
ESE	.1	.1	.0									.3	4.4
SE	.2	.3	.1	.0								.6	5.2
SSE	.4	.3	.1	.0								.8	4.7
S	1.0	1.2	.8	.3	.1							3.3	6.0
SSW	.9	3.0	1.8	1.4	.5	.1						7.6	8.0
SW	1.1	4.2	6.0	5.0	1.9	.5	.0					18.8	10.2
WSW	.7	2.7	5.3	7.8	2.8	1.4	.3	.0				21.1	12.5
W	.6	1.9	2.6	2.9	1.5	.9	.1	.0				10.4	11.8
WNW	.4	.7	.9	.7	.2	.1						3.0	8.9
NW	.4	.7	.8	.3	.1	.0						2.4	7.6
NNW	.5	.9	.9	.7	.2	.1						3.2	8.5
VARBL													
CALM												11.9	
	9.7	21.2	23.7	22.1	7.8	3.0	.4	.1				100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 7440

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITIC '

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.1	1.0	.6	.1							3.4	7.5
NNE	.9	1.3	.7	1.1	.6							4.6	8.4
NE	.7	.6	.9	.9	.3							3.3	9.0
ENE	.4	.4		.3	.2							1.4	8.6
E	.3	.2										.6	3.4
ESE		.7	.1									.8	5.7
SE	.3	.3	1.0									1.7	6.7
SSE	.8	1.0	1.1	.2								3.1	6.0
S	2.2	3.7	1.7	.1								7.7	5.0
SSW	1.6	4.2	2.0	.4								8.2	5.6
SW	2.3	5.6	6.3	2.8	.2	.1						17.3	7.6
WSW	.9	3.9	6.1	5.2	.3	.2						16.7	9.3
W	1.0	2.6	2.6	2.0	.2							8.3	8.3
WNW	.2	.9	1.4	.3								2.9	7.7
NW	.9	.7	.9	.4	.1							3.0	6.7
NNW	.3	.7	.9	.6								2.4	7.9
VARBL													
CALM												14.6	
	13.6	27.8	26.7	15.0	2.1	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS   900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	68-77 YEARS	APR MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.1	1.3	.2	.3							3.7	7.3
NNE	.9	1.3	.9	.7	.3							4.1	7.5
NE	.6	.7	.7	.6	.3							2.8	8.8
ENE	.2	.4	.2	.2	.3							1.4	9.5
E	.2	.8										1.0	3.8
ESE	.2	.3										.6	3.6
SE	.4											.4	2.0
SSE	.8	1.0	.1									1.9	3.8
S	2.0	2.9	.8	.2								5.9	4.6
SSW	2.3	3.4	1.7	.8								8.2	5.6
SW	2.8	5.1	7.3	3.4	.2							18.9	7.6
WSW	1.4	4.8	6.8	3.8	1.2		.1					18.1	8.9
W	.8	2.8	3.1	1.8	.2							8.7	7.9
WNW	.7	1.3	1.1	.3								3.4	6.3
NW	.4	.8	.7	.3								2.2	6.9
NNW	.1	1.0	1.0	.2								2.3	7.0
VARBL													
CALM												16.3	
	14.6	27.8	25.7	12.6	3.0		.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS _____ 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	1.4	.6	.2	.4						4.8	8.9
NNE	.3	1.4	1.1	.8	.3							4.0	8.8
NE	.4	1.2	.8	.4	.1	.2						3.2	8.4
ENE	.1	.1		.1								.3	6.7
E	.3	.2	.1									.7	4.0
ESE	.1		.1	.1								.3	6.7
SE	.3	.3										.7	3.7
SSE	.4	.2	.2									.9	4.
S	2.3	1.7	.3	.4	.1							4.9	5.2
SSW	1.0	2.1	1.6	1.0	.2							5.9	7.5
SW	2.4	4.7	5.6	4.8	1.0	.4						18.9	9.0
WSW	1.1	4.8	5.3	5.1	1.8	.3						18.4	9.9
W	.9	3.0	2.3	1.9	.6	.2						8.9	8.6
WNW	.7	1.1	1.3	.1								3.2	5.9
NW	.4	.4	1.0	.7	.1							2.7	8.5
NNW	.6	1.1	1.1	.9	.2							3.9	8.2
VARBL													
CALM												18.3	
	12.3	23.8	22.3	16.9	4.7	1.7						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.2	1.9	1.8	.6	.2						6.8	9.2
NNE	1.1	1.2	1.0	1.4	.2							5.0	8.4
NE	.4	1.3	.4	.3	.2	.2						3.0	8.6
ENE	.1	.2	.3	.1		.1						.9	9.0
E	.2	.6	.1	.2								1.1	6.3
ESE	.4	.1										.6	2.6
SE	.1	.3										.4	4.0
SSE	.6	.1										.7	2.8
S	.6		.6	.4	.1							1.7	8.5
SSW	.7	.4	1.9	1.9	.8							5.7	11.1
SW	1.0	1.4	3.9	5.2	1.1	.6						13.2	11.2
WSW	.9	1.6	4.8	7.8	3.6	1.9	.3	.2				21.0	13.6
W	2.0	2.6	6.2	4.0	1.9	1.2	.2					18.1	10.8
WNW	.3	.7	.6	1.7	.1	.2						3.6	10.3
NW	.6	1.4	1.0	.8								3.8	7.3
NNW	.3	1.1	2.2	1.8	.1							5.6	9.4
VARBL													
CALM												9.0	
	10.4	14.3	24.9	27.4	8.7	4.4	.6	.2				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.H.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.9	2.6	2.7	1.0	.2						10.0	9.8
NNE	.6	1.1	1.2	1.0								3.9	7.9
NE	.9	.9	1.2	.6	.2	.1						3.9	8.0
ENE	.3	.4	.6	.6	.1	.3						2.3	10.6
E	.9	1.0	.2	.2	.1							2.4	5.6
ESE	.3	.7	.1									1.1	4.5
SE	.4	.1	.1									.7	3.5
SSE	.2	.6		.1								.9	4.9
S	.3	1.3	.8	.9	.1							3.4	8.4
SSW	.6	.3	1.7	2.0	.6	.1						5.2	11.0
SW	.9	1.6	3.7	4.0	1.0	.4						11.6	10.8
WSW	.6	1.0	4.2	5.8	2.8	2.0	.9					17.2	14.3
W	1.2	2.8	5.4	4.0	3.1	1.6	.3					18.4	12.3
WNW	.3	1.1	1.6	.9	.1							4.0	8.5
NW	.7	.8	1.6	.7	.3	.1						4.1	9.0
NNW	.8	1.3	2.1	1.2	.4							5.9	8.7
VARBL													
CALM												4.9	
	9.7	17.9	27.0	24.6	9.9	4.9	1.2					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.4	2.6	3.0	.8							8.3	10.4
NNE	.3	.8	2.2	.4	.7							4.4	9.5
NE	1.2	1.1	.9	1.2	.3	.2						5.0	8.9
ENE	.2	.7	1.6	.7	.3	.1						3.6	9.8
E	.3	1.1	.9	.3	.3	.1						3.1	8.6
ESE	.3	.2	.7									1.2	5.4
SE	.2	.1	.6	.2								1.1	7.6
SSE	.8	.9	.6	.3								2.6	5.8
S	.9	1.3	.8	.9								3.9	6.7
SSW	.1	1.1	2.6	2.0	.1							5.9	9.5
SW	.9	1.1	3.3	3.3	.8	.2						9.7	10.5
WSW	.1	.8	2.8	4.4	3.4	2.0	.3					13.9	15.4
W	1.1	2.1	4.9	5.7	2.9	1.4	.1					18.2	12.5
WNW	.3	.7	1.9	.8	.7	.1						4.4	10.5
NW	.6	.7	1.9	.8	.3	.2						4.4	9.5
NNW	.1	1.6	2.7	1.8	.6	.1						6.8	9.9
VARBL													
CALM												3.4	
	8.1	15.7	30.7	25.9	11.2	4.6	.4					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS _____ 900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

. ALL WEATHER — CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.8	3.0	1.6	.3							7.2	8.7
NNE	.8	1.7	1.7	1.3								5.4	7.5
NE	.6	1.7	1.9	1.0	.4							5.6	8.7
ENE	.7	1.1	1.1	.7	.3							3.9	8.2
E	1.1	.9	.9									2.9	4.9
ESE	.4	.3	.7	.4	.1							2.0	8.0
SE	.6	1.2	.9	.1								2.8	6.0
SSE	.4	.9	1.0	.1								2.4	6.4
S	.7	2.9	1.6		.1							5.2	5.7
SSW	.2	3.0	1.6	.4	.1							5.3	6.7
SW	1.0	3.8	2.8	1.7	.2							9.4	7.6
WSW	.2	1.9	2.7	5.2	2.2	.7	.1					13.0	12.8
W	.4	2.4	3.1	4.6	2.2	.6						13.3	11.8
WNW	.2	.8	1.2	1.3	.4	.1						4.1	10.4
NW	.7	1.7	1.4	.9								4.7	7.3
NNW	.1	.8	.7	.6								4.3	9.0
VARBL													
CALM												8.3	
	9.2	26.8	26.3	21.3	6.6	1.9	.1					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.0	1.2	.7	.1							3.7	7.8
NNE	.8	.9	1.0	1.3								4.0	7.8
NE	.9	1.7	1.2	1.2								5.0	7.3
ENE	.7	.8	.6	.3	.1	.1						2.6	7.4
E	.7	.6	.4									1.7	4.9
ESE	.4	.6	.2	.3								1.6	6.5
SE	.2	1.1	.4	.4								2.2	6.7
SSE	1.1	1.7	2.1	.3	.1							5.3	6.8
S	1.2	4.9	1.8	.1	.1							8.1	5.4
SSW	1.1	4.0	1.6	.2								6.9	5.5
SW	.6	5.2	6.4	1.6		.1						13.9	7.7
WSW	.4	4.7	3.2	5.3	.8							14.4	9.4
W	.3	1.3	3.0	2.8	.6	.1						8.1	10.2
WNW	.8	1.1	1.9	.4	.4							4.7	8.1
NW	.7	.9	1.4	.2								3.2	6.6
NNW	.9	.8	1.3	1.3	.1							4.4	8.3
VARBL													
CALM												10.2	
	11.4	31.1	27.9	16.7	2.3	.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS / ALL — HOURS (L S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.5	1.9	1.4	.4	.1						6.0	9.0
NNE	.7	1.2	1.2	1.0	.3							4.4	8.2
NE	.7	1.1	1.0	.8	.2	.1						4.0	8.4
ENE	.3	.5	.5	.4	.2	.1						2.1	8.9
E	.5	.7	.3	.1	.1	.0						1.7	5.8
ESE	.3	.4	.2	.1	.0							1.0	5.9
SE	.3	.4	.4	.1								1.2	5.8
SSE	.6	.8	.6	.1	.0							2.2	5.8
S	1.3	2.3	1.0	.4	.1							5.1	5.7
SSW	.9	2.3	1.8	1.1	.2	.0						6.4	7.5
SW	1.5	3.6	4.9	3.3	.6	.2						14.1	8.8
WSW	.7	2.9	4.5	5.3	2.0	.9	.2	.0				16.6	11.6
W	1.0	2.4	3.8	3.3	1.5	.6	.1					12.8	10.8
WNW	.4	1.0	1.4	.7	.2	.1						3.8	8.6
NW	.6	.9	1.2	.6	.1	.0						3.5	7.8
NNW	.5	1.0	1.5	1.2	.2	.0						4.5	8.8
VARBL													
CALM												10.6	
	11.2	23.1	26.4	20.0	6.1	2.2	.3	.0				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS   7200

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	0 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.1	1.0	.4		.1						3.2	7.1
NNE	.4	1.4	.5	.5	.2							3.1	7.7
NE	.9	.6	1.4	.5	.2							3.7	7.4
ENE	.3											.3	2.0
E	.6	1.0	.1									1.7	4.1
ESE	.5	1.0	.3	.1								1.9	5.2
SE	.3	1.0	.4	.2								1.9	6.3
SSE	1.0	1.4	.3	.1								2.8	4.6
S	2.5	4.9	.9	.1								8.4	4.6
SSW	1.6	6.7	1.8	.4								10.5	5.4
SW	1.9	8.5	4.6	1.7	.3							17.1	6.6
WSW	1.0	5.1	6.2	2.2	.4	.2						15.1	8.0
W	.9	1.9	2.4	1.1	.2							6.5	7.7
WNW	.2	1.3	.8	.3								2.6	6.9
NW	.1	.8	.8	.3								1.9	8.1
NNW	.2	.5	.3	.4								1.5	7.8
VARBL													
CALM												17.7	
	13.1	37.1	21.8	8.5	1.4	.3						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS   930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY

STATION   STATION NAME   YEARS   MONTH

ALL WEATHER

CLASS   0300-0500

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	.9	1.3	.5								3.1	7.4
NNE	.9	1.1	1.0	.5	.2							3.7	7.2
NE	.5	.9	.3	.2								1.9	5.5
ENE	.6	.2	.1	.1								1.1	4.2
E	.2	.5										.8	4.1
ESE	.3	.2	.1									.6	4.2
SE	.5	.5	.1	.1								1.3	4.8
SSE	1.5	.8	.2									2.5	3.4
S	2.4	2.8	.4	.1								5.7	4.1
SSW	2.9	3.5	2.7	.4								9.6	5.5
SW	2.9	5.9	7.1	1.5	.9							18.3	7.2
WSW	1.8	5.6	5.1	2.6	.1	.1						15.3	7.5
W	1.7	3.4	1.6	.6	.1							7.5	6.0
WNW	.5	.6	1.0	.8	.1							3.0	8.4
NW	.4	1.0	.6	.3	.1							2.5	7.1
NNW	.1	1.0	.4	.6								2.2	8.2
VARBL													
CALM												21.1	
	17.8	28.9	22.0	8.5	1.5	.1						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	.6	1.8	1.0								4.3	8.0
NNE	1.2	1.2	.8	1.1	.1							4.3	7.5
NE	.6	.5	.2	.3	.1							1.8	6.8
ENE	.8	.3		.1	.1							1.3	4.8
E	.8	.3										1.1	2.9
ESE	.3		.1	.1								.5	5.6
SE	.4	.3	.8	.1								1.6	6.5
SSE	.8	.5	.1	.1								1.5	4.8
S	1.5	2.0	.2	.3								4.1	4.6
SSW	1.7	1.8	1.9	.6								6.1	6.2
SW	2.3	2.9	7.4	3.3	1.1	.4						17.4	8.9
WSW	1.5	3.4	4.8	5.5	1.4							16.7	9.8
W	1.8	3.8	2.7	1.7	.1	.1						10.2	7.0
WNW	.5	.8	.4	.5	.1							2.4	7.8
NW	.6	.9	.9	.3	.2							2.9	7.6
NNW	.1	.9	1.1	.4	.1							2.6	8.4
VARBL													
CALM												21.2	
	15.8	20.3	23.2	15.6	3.3	.5						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	1.3	2.0	1.2								5.9	7.1
NNE	.5	1.8	1.4	1.1	.2							5.1	8.0
NE	.5	1.7	1.6	.9	.1							4.8	7.7
ENE	.3	1.1	.5	.4	.1	.1						2.6	8.1
E	.9	1.4	.4	.1								2.8	4.6
ESE	.3	.2										.5	3.2
SE	.1	.2	.1									.4	5.3
SSE		.5		.1								.6	6.2
S	.8	.5	.3	.1								1.7	4.
SSW	.4	1.0	.1	.2	.1							1.8	5.
SW	.9	1.6	3.3	4.8	1.6	.4						12.7	11.0
WSW	.9	1.9	4.0	7.6	2.4	1.3	.3					18.4	13.0
W	1.1	3.9	5.2	3.7	1.2	.9	.1					15.9	10.1
WNW	.8	2.4	2.2	.8	.3	.1						6.5	7.7
NW	.4	1.4	1.4	.6		.2						4.1	8.5
NNW	.5	1.3	1.6	1.0	.1							4.5	8.1
VARBL													
CALM												11.6	
	9.8	22.3	24.2	22.6	6.1	3.0	.4					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	2.5	2.5	1.5	.1							7.3	7.9
NNE	.5	1.5	1.3	.9	.3							4.5	8.1
NE	.6	1.3	2.3	1.6	.2							6.0	8.8
ENE	.4	1.4	1.1	1.2	.1							4.2	8.7
E	.5	2.5	.6	.4	.1							4.2	6.6
ESE	.3	1.2	.3	.3	.1							2.3	7.0
SE	.2	.3	.2									.8	5.1
SSE	.5	.3	.2									1.1	4.1
S	.4	1.0	.6									2.0	5.5
SSW	.3	1.4	.8	.6	.1							3.2	7.5
SW	1.0	1.9	2.6	3.0	1.3	.3						10.1	10.6
WSW	.3	1.6	3.1	6.1	2.6	1.0	.1					14.8	13.1
W	.6	3.0	4.6	4.4	2.5	1.2	.1					16.5	11.8
WNW	.6	1.9	2.3	.9	.3	.1	.1					6.2	8.3
NW	.3	1.4	1.3	.4	.6	.2						4.3	9.8
NNW	.4	1.2	1.5	1.8								4.9	8.7
VARBL													
CALM												7.5	
	8.1	24.4	25.3	23.2	8.4	2.8	.3					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.2	2.7	1.3								6.2	7.7
NNE	.3	1.6	2.0	1.2	.2							5.4	8.4
NE	.6	1.7	2.7	1.4								6.5	7.9
ENE	.1	1.3	1.4	1.0	.3							4.1	8.9
E	.3	2.0	1.1	.5	.2	.1						4.3	8.0
ESE	.5	1.2	1.1	1.0	.6							4.4	9.2
SE	.5	.6	.3	.3		.1						1.9	7.5
SSE	.1	.3	.2	.1								.8	6.7
S	.6	1.0	.9	.4	.2							3.1	7.6
SSW	.6	.8	1.8	.5	.3	.1						4.2	8.8
SW	.8	2.0	1.8	2.7	.6							8.0	9.5
WSW	.4	1.9	2.7	3.8	2.3	.8						11.8	12.4
W	.6	2.0	4.3	5.1	3.3	2.0						17.4	13.2
WNW	.5	1.5	2.0	1.7	1.0	.1						6.9	10.2
NW	.4	1.2	1.0	1.2	.3							4.1	9.3
NNW	.3	1.2	.9	1.4								3.8	8.7
VARBL													
CALM												7.2	
	0.1	21.6	26.9	23.5	9.5	3.2						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS   930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.6	2.3	1.3	.1							6.0	8.1
NNE	.8	1.2	1.5	.4								3.9	6.5
NE	1.3	3.0	2.7	.9	.1							8.0	6.9
ENE	.3	2.9	1.6	.9	.1							5.8	7.1
E	1.2	2.4	1.3	.8	.3							5.9	6.9
ESE	.4	.5	.9	1.1	.2							3.1	9.7
SE	.8	1.0	1.0	.8	.1	.1						3.7	8.0
SSE	.8	1.2	.4									2.4	4.9
S	.8	1.6	.4	.8	.2							3.8	7.3
SSW	1.4	2.3	1.0	.6	.1							5.4	6.5
SW	.4	2.0	2.4	.9	.2							5.9	7.6
WSW	.1	.8	1.1	2.6	.8	.3						5.6	12.3
W	.4	1.2	4.2	5.9	2.3	.6						14.6	12.0
WNW	.9	.9	2.2	2.5	1.0	.2						7.5	11.0
NW	.9	1.3	1.2	.3			.1					3.8	6.6
NNW	.2	.9	1.2	1.1								3.3	8.6
VARBL													
CALM	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	11.4	
	11.3	24.6	25.2	20.6	5.5	1.3	.1					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS _____ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	.9	.9	.4								3.0	6.3
NNE	1.0	1.5	.9	.4		.1						3.9	6.8
NE	.4	1.4	.5	.9	.1							3.3	7.7
ENE	1.0	1.1	1.2									3.2	5.3
E	1.0	.6	.1	.3								2.0	5.3
ESE	.8	.9	.5	.4								2.6	6.3
SE	.9	.9	.9	.9								3.4	7.3
SSE	1.7	1.5	1.5	.3								5.1	5.5
S	1.9	5.9	1.7	.2								9.8	5.1
SSW	1.3	5.5	1.1	.2								8.1	5.3
SW	1.0	4.6	3.4	1.1		.1						10.2	7.0
WSW	.5	2.8	3.2	2.6	.1							9.2	8.7
W	1.4	2.6	4.4	3.1	.6							12.2	8.8
WNW	.3	1.9	.6	.8	.1							3.8	7.6
NW	.4	1.1	1.4	.1	.2							3.2	7.4
NNW	.1	.4	.6	.3		.1						1.6	8.7
VARBL													
CALM												15.4	
	14.5	33.5	23.0	12.0	1.2	.3						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB IT/GREAT FALLS	6B-77	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

ALL — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.2	1.8	1.0	.0	.0						4.9	7.6
NNE	.7	1.4	1.2	.8	.2	.0						4.2	7.6
NE	.7	1.4	1.5	.8	.1							4.5	7.5
ENE	.5	1.0	.7	.5	.1	.0						2.8	7.2
E	.7	1.3	.5	.3	.1	.0						2.8	6.1
ESE	.4	.6	.4	.4	.1							2.0	7.5
SE	.5	.6	.5	.3	.0	.0						1.9	6.9
SSE	.8	.8	.4	.1								2.1	4.9
S	1.4	2.5	.7	.3	.1							4.8	5.2
SSW	1.3	2.9	1.4	.5	.1	.0						6.1	6.1
SW	1.4	.7	4.1	2.4	.8	.2						12.5	8.4
WSW	.8	2.9	3.8	4.1	1.2	.5	.1					13.4	10.5
W	1.1	2.7	3.7	3.2	1.3	.6	.0					12.6	10.3
WNW	.6	1.4	1.4	1.0	.4	.1	.0					4.9	8.9
NW	.5	1.1	.1	.5	.2	.1	.0					3.3	8.1
NNW	.3	.9	1.0	.9	.0	.0						3.1	8.5
VARBL													
CALM												14.1	
	12.3	26.6	24.0	16.8	4.6	1.5	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS   7440

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.0	.1	.2								2.0	5.3
NNE	1.1	.9	.6	.6								3.1	6.1
NE	.3	.4	.7	.1								1.6	6.6
ENE	.7	.3	.1									1.1	3.4
E	.2	.7										.9	3.9
ESE	.4	.3	.1									.9	4.1
SE	.4	.4	.4	.3								1.7	7.1
SSE	1.7	1.6	.6									3.8	4.2
S	4.0	5.7	1.3	.1								11.1	4.5
SSW	3.2	4.6	1.7	.2	.1							9.8	4.9
SW	2.3	4.9	6.3	1.8								15.3	7.0
WSW	1.1	4.1	5.3	2.7	.2							13.4	7.9
W	1.1	3.1	3.9	1.3	.2							9.7	7.2
WNW	1.0	1.0	.7	.1								2.8	5.5
NW	.3	.7	.4	.1								1.6	5.8
NNW	.6	.4	.4	.3								1.8	6.6
VARBL													
CALM												19.6	
	19.2	30.1	22.7	7.9	.6							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME	YEARS		MONTH
	ALL WEATHER			0300-0500
	CLASS			HOURS (L.S.T.)
	CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.0	.3	.2								2.2	5.8
NNE	.4	.8	.3	.3								1.9	7.1
NE	.6	.8	.6	.2								2.1	6.2
ENE	.3	.3										.7	3.3
E	.3	.2										.6	3.2
ESE	.4		.1									.6	3.8
SE	.7	.2	.1									1.0	3.3
SSE	.8	.8	.2									1.0	3.9
S	3.4	3.9	.4	.1								7.9	3.9
SSW	3.8	5.3	1.2									10.3	4.2
SW	3.3	7.0	5.2	2.1								17.7	6.3
WSW	1.9	4.7	5.4	4.0								16.0	7.9
W	2.0	3.2	3.2	1.4								9.9	6.8
WNW	.4	1.6	.3	.2								2.6	5.7
NW	.6	1.2	.4	.2								2.4	5.6
NNW	.9	.7	.3	.1	.1							2.1	5.5
VARBL													
CALM												20.3	
	20.6	31.7	18.3	9.0	.1							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS   900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.0	1.2	.4								3.2	7.3
NNE	1.1	1.7	.6	.7								4.0	5.7
NE	.3	.4	.4	.3	.1							1.7	8.0
ENE	.7	.2	.3									1.2	4.6
E	.4	.1	.1									.7	3.7
ESE	.1											.1	3.0
SE	.6	.3										.9	3.3
SSE	.7		.2									.9	3.5
S	1.4	1.3	.7									3.4	4.2
SSW	1.1	2.1	.8	.6	.1							4.7	6.2
SW	2.3	4.9	4.6	4.0	.8	.2						16.8	8.6
WSW	2.2	4.1	4.3	7.3	1.2	.1						19.3	9.6
W	2.2	3.9	4.7	2.2	.6	.1						13.7	7.7
WNW	.7	1.2	.9	.6								3.3	6.7
NW	.9	.8	1.6	.3								3.6	6.6
NNW	.6	1.0	.6	.2								2.3	5.7
VARBL													
CALM												20.2	
	15.9	23.1	20.9	16.7	2.8	.4						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS _____ 900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER   0900-1100
CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	1.6	1.2	.7								4.9	5.9
NNE	1.3	1.8	1.2	.9	.2							5.4	6.9
NE	1.3	1.9	.7	1.0								4.9	6.2
ENE	.4	1.3	.4	.2								2.4	5.6
E	.3	1.3	.3	.2								2.2	5.8
ESE	.3	.1										.4	3.0
SE	.4	.2										.7	3.0
SSE	.1	.2										.3	4.3
S	.6	.6	.6	.2								1.9	5.8
SSW	.9	1.2	.9	.1								3.1	5.4
SW	1.3	1.6	2.9	4.6	1.1	.3	.1					11.9	11.1
WSW	1.1	2.4	5.2	7.6	2.9	.9						20.1	12.0
W	1.4	5.6	4.9	4.3	1.6	.4						18.2	9.3
WNW	1.4	1.6	2.1	1.0	.7							6.8	8.0
NW	.4	1.6	.9	.6	.2							3.7	7.5
NNW	.7	1.4	.7	.4								3.2	6.7
VARBL													
CALM												9.8	
	13.7	24.3	22.0	21.8	6.7	1.7	.1					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS   900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.9	1.9	.6	.1	.1						5.8	7.0
NNE	.9	1.9	.8	.9	.2							4.7	7.4
NE	1.0	1.9	2.0	.3	.2							5.4	6.9
ENE	.6	1.8	.7	.8	.1							3.9	7.0
E	.4	1.6	2.0	.1								4.1	6.3
ESE	.4	.3	.1	.1								1.0	5.0
SE	.8	.7	.2									1.7	3.9
SSE	.6	.4	.1	.1								1.2	4.5
S	.8	.6	.3	.2								1.9	5.2
SSW	.8	1.1	1.3	.4	.2							3.9	7.3
SW	.7	2.0	2.4	2.8	1.2	.2						9.3	10.6
WSW	.8	1.2	3.9	7.9	3.8	1.3						18.9	13.3
W	.9	2.6	5.3	5.7	2.0	.0						17.0	11.0
WNW	.9	1.8	1.9	.6	.2							5.3	7.4
NW	.9	.8	1.9	.9	.7							5.1	8.9
NNW	.6	.9	1.0	.7	.1							3.2	7.8
VARBL													
CALM												7.6	
	12.1	21.3	25.9	22.0	8.9	2.2						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS _____ 900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	2.2	.6	1.4	.4	.1						5.8	8.4
NNE	1.8	2.0	1.9	1.1	.1	.2						7.1	7.6
NE	1.2	2.1	1.1	1.3								5.8	7.0
ENE		1.3	1.9	.6								3.8	7.9
E	.7	1.9	2.1	.6	.1							5.3	7.3
ESE	.6	1.3	1.0	.3								3.2	6.4
SE		1.0	.9	.4		.1						2.4	8.8
SSE	.2	.3	.2									.8	5.6
S	.4	.8	.4	.6								2.2	7.0
SSW	.3	.4	1.0	.2	.2	.1						2.3	9.1
SW	.7	.6	1.9	1.9	.8	.1						5.9	10.9
WSW	.4	1.0	4.1	5.3	2.6	.3						13.8	12.2
W	1.3	2.1	4.4	7.9	2.8	1.2	.1					19.9	12.4
WNW	1.1	1.3	2.4	2.2	.3							7.4	9.0
NW	.4	1.3	1.2	1.7	.1	.1						4.9	9.2
NNW	.4	1.1	.3	1.2	.2							3.3	8.9
VARBL													
CALM												6.0	
	10.7	20.9	25.6	26.8	.7	2.3	.1					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS _____ 900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.0	1.6	.7	.1							4.1	7.7
NNE	1.3	2.1	1.3	.7	.3	.1						5.9	7.3
NE	.4	1.3	2.6	1.2								5.6	8.0
ENE	.6	3.0	3.1	.8								7.4	6.9
E	1.0	3.3	2.0	.3								6.7	6.0
ESE	.6	1.8	1.2	.2								3.8	6.2
SE	.6	.6	.9	.1								2.1	5.9
SSE	.2	.7	.6									1.4	5.9
S	.8	1.6	1.1	.2								3.7	5.8
SSW	.6	.9	.8	.4								2.7	6.7
SW	.3	1.7	1.9	1.1	.4							5.4	9.1
WSW	.3	1.0	2.4	3.2	1.0	.2	.2					8.4	11.9
W	1.4	3.1	6.4	5.6	1.8	.4						18.8	10.3
WNW	.3	1.7	3.9	2.6	.4							8.9	9.5
NW	.4	1.0	1.7	1.6	.1							4.8	9.0
NNW	.2	1.1	1.0	.4	.2							3.0	8.3
VARBL													
CALM												7.3	
	9.9	25.8	32.4	19.1	4.4	.6	.2					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.1	1.1	.3								3.3	6.2
NNE	1.1	1.1	1.1	.6	.1							4.0	6.9
NE	.7	1.3	.8	.3	.1							3.2	6.7
ENE	1.4	.9	.1									2.4	3.5
E	2.1	1.1	.7									3.9	3.9
ESE	.9	1.1	.3	.2	.1							2.7	5.6
SE	1.8	1.1	.8	.2	.1							4.0	5.3
SSE	.6	2.6	.6	.1								3.8	5.3
S	2.2	4.3	.6	.1								7.2	4.5
SSW	1.3	4.9	1.2	.1								7.6	5.1
SW	1.8	4.4	4.8	1.2								12.2	6.7
WSW	.8	3.6	2.9	3.0	.7	.1						11.0	9.0
W	.7	3.3	3.8	1.8	.2							9.8	7.9
WNW	.2	2.1	1.6	1.1								5.0	7.7
NW	.7	1.1	.6	.4								2.8	6.3
NNW		.3	.3	.1								.8	8.0
VARBL													
CALM												16.3	
	17.0	34.4	21.1	9.7	1.3	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS _____ 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS   ALL — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.3	1.0	.6	.1	.0						3.9	6.9
NNE	1.1	1.5	1.0	.7	.1	.0						4.5	7.0
NE	.7	1.3	1.1	.6	.1							3.8	7.0
ENE	.6	1.2	.8	.3	.0							2.9	6.2
E	.7	1.3	.9	.2	.0							3.0	5.8
ESE	.5	.6	.4	.1	.0							1.6	5.6
SE	.7	.6	.4	.1	.0	.0						1.8	5.7
SSE	.6	.8	.3	.0								1.7	4.7
S	1.7	2.3	.7	.2								4.9	4.7
SSW	1.5	2.6	1.1	.3	.1	.0						5.5	5.5
SW	1.6	3.4	3.7	2.4	.5	.1	.0					11.8	8.4
WSW	1.1	2.8	4.2	5.1	1.5	.4	.0					15.1	10.6
W	1.4	3.4	4.6	3.8	1.1	.3	.0					14.6	9.6
WNW	.8	1.5	1.7	1.0	.2							5.3	8.0
NW	.6	1.1	1.1	.7	.1	.0						3.6	7.8
NNW	.5	.9	.6	.4	.1							2.5	7.3
VARBL													
CALM												13.4	
	14.9	26.5	23.6	16.6	4.1	.9	.1					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS   7200

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.0	.4	.1	.1							2.4	5.7
NNE	.4	1.9	1.0	.2	.1							3.7	6.5
NE	.5	1.1	.2	.1								1.9	5.1
ENE	1.3	.3		.1								1.7	3.3
E	.3	.9		.1								1.3	4.7
ESE	.6	.6	.1									1.4	3.7
SE	.9	1.7	.4	.2								3.2	5.2
SSE	1.5	2.2	1.0	.2								4.8	5.0
S	3.0	6.0	1.8	.1								11.0	4.7
SSW	2.2	8.3	.8									11.2	4.6
SW	2.5	5.5	3.7	.2								11.8	5.5
WSW	.6	3.7	1.8	1.1								7.2	6.8
W	1.1	2.5	1.6	.5	.1	.2						6.0	7.1
WNW	1.0	.2	.8	.1								2.0	5.1
NW	.5	.4	.2	.1	.1							1.4	5.9
NNW	.3	.1		.1		.1						.6	7.7
VARBL													
CALM												28.3	
	17.5	36.3	13.8	3.3	.4	.3						100.0	3.9

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAFETAC FORM JUL 66 6-8-5 (CL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.0	.4	.1								2.3	5.0
NNE	.5	1.4	.5	1.1								3.5	7.7
NE	.3	.5	.1									1.0	4.6
ENE	.2	.3										.5	4.0
E	.3	.4										.8	3.7
ESE	.4	.5	.1									1.1	4.4
SE	.1	.6	.3									1.1	5.3
SSE	1.0	1.2	.2									2.4	4.1
S	3.9	3.4	.8	.1								8.2	4.0
SSW	4.1	5.8	1.8	.1								11.8	4.5
SW	3.8	7.6	3.5	.3								15.3	5.2
WSW	2.4	5.2	2.5	1.4		.1						11.5	6.2
W	1.3	4.2	1.4	.6								7.5	5.8
WNW	.1	.9	.6	.3	.1							2.0	7.8
NW	.5	.6	.2	.2								1.6	5.7
NNW	.5	.4	.1	.2								1.3	5.8
VARBL													
CALM												28.2	
	20.2	34.2	12.7	4.5	.1	.1						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.1	.3	.1								2.9	4.2
NNE	1.0	.5	1.3									2.8	5.9
NE	.4	.8	.6									1.8	5.4
ENE	.2	.4	.1									.8	4.6
E	.5	.6	.1									1.3	4.0
ESE	.1	.2										.4	5.3
SE	.3	.1	.4	.1								1.0	6.0
SSE	.4	.8	.1									1.3	4.0
S	1.4	1.4										2.8	3.4
SSW	1.6	1.8	.8	.8	.1							5.1	6.1
SW	3.7	4.2	4.0	1.4	.2							13.4	6.4
WSW	2.6	5.1	4.1	2.8	.6							15.2	7.7
W	3.3	4.5	3.4	.4	.1							11.8	5.5
WNW	1.6	1.8	.8			.1						4.3	4.7
NW	.4	1.3	1.0	.1								2.8	6.1
NNW	.4	.9	.8									2.0	5.8
VARBL													
CALM												30.3	
	19.5	25.5	17.8	5.7	1.1	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.9	.6	.1								4.0	4.9
NNE	1.9	1.7	1.1	.1								4.8	4.8
NE	.9	1.6	.6	.1		.1						3.3	5.8
ENE	1.1	1.8	.4	.1								3.4	4.6
E	1.3	1.3		.1								2.7	3.9
ESE	.4	.5	.4									1.4	5.1
SE	.4	.6	.1	.1								1.3	4.8
SSE	.1	.3										.4	4.0
S	1.1	.2		.1								1.4	3.5
SSW	1.1	.6	.5	.2	.1							2.6	5.8
SW	1.3	1.4	3.3	2.8	1.0	.3						10.1	10.1
WSW	1.9	2.7	6.0	4.2	1.6	.1						16.6	9.5
W	1.8	7.0	6.9	1.8	.5	.1						18.2	7.4
WNW	.9	3.1	1.7	.4								6.1	6.1
NW	1.3	2.2	1.6	.3								5.4	5.8
NNW	1.0	.8	.6									2.4	4.9
VARBL													
CALM												15.9	
	17.7	27.8	24.1	10.5	3.2	.6						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	2.0	2.5	.4								6.3	6.2
NNE	1.4	1.7	1.4	.3								4.8	5.8
NE	.8	2.7	1.6	.4								5.5	5.3
ENE	.5	1.7	1.9	.1	.1							4.4	6.4
E	1.3	2.0	.8	.2								4.3	5.1
ESE	.4	.6	.2	.4								1.7	6.8
SE	.1	.3	.4	.1								1.0	6.9
SSE	.5	.2	.3									1.1	4.3
S	.5	1.1	.4									2.0	4.9
SSW	.4	.9	.6	.5								2.5	7.2
SW	1.2	1.7	1.9	2.2	.1	.8						7.8	9.7
WSW	.9	1.8	4.6	3.3	2.0	.2						12.9	10.9
W	2.3	5.8	6.2	5.2	2.0	.1	.1					21.7	9.3
WNW	.6	1.3	2.5	1.1								5.5	7.7
NW	1.4	1.1	.8	.6								3.9	6.1
NNW	.8	1.2	1.0	.8		.1						3.8	7.3
VARBL													
CALM												10.8	
	14.5	26.2	27.2	15.7	4.3	1.2	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	1.6	.6								4.3	7.0
NNE	1.3	2.7	2.3	1.3	.3	.1						8.0	7.5
NE	1.0	3.4	2.3	1.0	.1							7.7	7.0
ENE	.9	1.7	1.5	1.1	.1							5.3	7.3
E	1.4	2.0	1.5	.3								5.3	5.9
ESE	.5	.8	.4	.1								1.8	5.4
SE	.4	.1	.5	.2								1.3	6.6
SSE	.4	.5	.3	.2								1.5	6.4
S	1.0	1.1	.4	.1	.1							2.7	5.4
SSW	.8	1.3	1.0	.2	.1							3.3	6.4
SW	.6	1.1	2.3	1.2	.1							5.3	8.3
WSW	.3	1.9	3.1	2.2	.8	.5						8.8	10.5
W	1.0	2.4	3.8	6.1	3.4	.4						17.1	12.0
WNW	.5	1.9	2.7	2.6	.5	.2	.1					8.6	10.0
NW	1.3	.9	2.5	1.5								6.1	7.8
NNW	.4	.9	.8	1.0								3.0	7.8
VARBL													
CALM												9.9	
	12.4	24.2	26.9	19.7	5.6	1.3	.1					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTRUM AFB MT/GREAT FALLS	69-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	2.2	1.8	.9	.1	.1						5.9	7.6
NNE	.5	2.2	2.0	1.8	.2							6.8	8.5
NE	1.3	3.2	2.4	1.3	.1							8.3	6.9
ENE	1.5	3.8	3.9	.4	.1							9.7	6.4
E	2.0	2.8	2.4	.5								7.7	5.9
ESE	.6	.9	.9	.2								2.6	5.7
SE	.6	.9	.4	.4	.1							2.5	7.0
SSE	.4	.3	.5	.1								1.4	5.9
S	.8	1.0	1.0	.3								3.0	6.0
SSW	.6	.3	.8	.2	.1							2.0	6.8
SW	.9	1.2	1.0	1.2				.1				4.3	8.1
WSW	.2	.6	1.3	1.7			.1					4.0	10.4
W	.9	3.1	4.1	3.2	1.3	.2						12.8	9.9
WNW	.6	1.2	3.1	2.3	.6	.3						8.2	10.3
NW	.9	1.4	1.6	1.5	.3							5.7	8.7
NNW	.6	.8	1.6	1.0			.1					4.1	8.4
VARBL													
CALM												11.1	
	13.4	25.7	28.7	17.1	3.0	.6	.2	.1				100.0	7.1

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.8	.8	.2								4.0	5.4
NNE	1.1	2.2	2.3	.2	.4	.1						6.2	7.1
NE	1.1	2.2	1.5	.4								5.2	5.8
ENE	1.7	1.6	.8									4.1	4.6
E	2.0	1.2	.6									3.9	4.0
ESE	1.0	1.7	.2	.1								3.0	4.5
SE	1.3	2.6	.6	.4								4.9	5.3
SSE	1.4	3.9	.9									6.1	4.8
S	1.6	4.9	1.4		.1							8.1	5.1
SSW	.8	3.1	.6	.1								4.6	5.1
SW	1.0	4.0	2.2	.8								7.8	6.3
WSW	.6	2.4	1.8	.8								5.6	6.8
W	1.1	2.2	1.1	1.0	.3							5.6	7.3
WNW	.4	1.2	.6	.5								2.8	6.8
NW	.9	1.1	.5									2.5	5.1
NNW	.3	.8	.2	.1								1.4	5.5
VARBL													
CALM												24.2	
	17.4	36.7	16.1	4.6	.9	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS   930

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER   ALL
CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	1.1	.3	.0	.0						4.0	6.0
NNE	1.0	1.8	1.5	.6	.1	.0						5.1	6.9
NE	.8	1.9	1.2	.4	.0	.0						4.3	6.3
ENE	.9	1.5	1.1	.2	.0							3.7	5.9
E	1.2	1.4	.7	.2								3.4	5.1
ESE	.5	.7	.3	.1								1.7	5.1
SE	.5	.9	.4	.2	.0							2.0	5.7
SSE	.7	1.2	.4	.1								2.4	4.9
S	1.7	2.4	.7	.1	.0							4.9	4.7
SSW	1.4	2.8	.9	.3	.1							5.4	5.3
SW	1.9	3.3	2.7	1.2	.2	.1		.0				9.5	7.1
WSW	1.2	2.9	3.2	2.2	.6	.1	.0					10.2	8.6
W	1.6	4.0	3.6	2.4	1.0	.1	.0					12.6	8.5
WNW	.7	1.5	1.6	.9	.2	.1	.0					4.9	8.0
NW	.9	1.1	1.0	.6	.1							3.7	6.8
NNW	.6	.7	.6	.4		.0	.0					2.3	6.9
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	19.8	
	16.6	29.6	20.9	10.1	2.3	.6	.1	.0				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS   7440

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.1	.8	.1								2.7	5.3
NNE	1.0	1.6	.9	.5	.1							4.1	6.5
NE	.9	.3	.6	1.1								2.9	8.0
ENE	.4	.2	.1									.8	4.0
E	.2	.2										.4	3.3
ESE	.6	.5	.3	.1								1.6	4.9
SE	.4	.3	.6	.1								1.5	6.1
SSE	1.2	1.2	.5									2.9	4.1
S	3.4	5.2	1.5	.3								10.4	4.7
SSW	2.7	6.0	2.0									10.8	5.0
SW	3.4	6.7	4.1	1.3		.1						15.6	5.9
WSW	1.4	4.5	2.3	.5		.1						8.8	6.0
W	1.9	3.0	1.3	.3								6.6	5.2
WNW	.8	.9	.1	.2								1.9	4.9
NW	1.1	.9	.3	.1								2.4	4.4
NNW	1.1	.5	.1									1.7	3.4
VARBL													
CALM												24.9	
	21.3	33.1	15.6	4.7	.1	.2						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.2	.2	.2								2.8	4.9
NNE	.6	.8	.6	.1								2.2	5.2
NE	.2	1.0	.5									1.7	5.7
ENE	.4	.5	.1									1.1	3.7
E	.2	.2	.1									.5	4.4
ESE	.1	.3										.4	4.0
SE	.6	.6	.1	.1								1.5	4.6
SSE	1.9	.5	.5	.1								3.1	4.0
S	4.5	3.3	.3									8.2	3.4
SSW	4.6	5.5	.6	.2								11.0	4.1
SW	4.2	9.7	5.5	1.0	.1							20.4	5.7
WSW	3.0	4.4	3.0	.5	.1							11.1	5.7
W	1.7	3.0	1.1	.3								6.1	5.1
WNW	.3	1.5	.9	.1								2.8	6.0
NW	.8	1.1	.3	.1								2.3	5.0
NNW	.9	.8	.5	.2								2.4	5.5
VARBL													
CALM												22.5	
	25.4	34.4	14.5	3.0	.2							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-B-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	.8	.3	.1	.1							2.3	5.0
NNE	.8	1.5	.3	.1								2.7	4.8
NE	1.1	.6	.8	.1								2.6	5.1
ENE	.1	.3	.1									.5	5.6
E	.8	.1										.9	2.6
ESE	.6			.1								.3	3.6
SE	.3	.3	.1									.8	4.4
SSE	.5	.3	.1									1.0	4.0
S	2.5	1.7	1.1									5.3	4.3
SSW	2.9	3.0	1.1	.6		.1						7.8	5.5
SW	4.0	5.3	3.4	1.7	.4							14.8	6.5
WSW	2.7	4.6	2.6	2.0	.6	.1						12.7	7.1
W	1.8	4.2	2.4	.9								9.2	6.0
WNW	1.5	1.9	.2	.2								3.9	4.6
NW	1.0	1.1	.1		.1							2.3	4.6
NNW	1.1	.3	.6	.1								2.2	4.8
VARBL													
CALM												30.4	
	22.6	26.1	13.2	6.1	1.3	.2						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER

0900-1100

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	1.8	.8	.9	.1							5.5	5.8
NNE	.9	1.8	1.4	.5								4.6	6.3
NE	1.0	1.6	1.2	.6	.1							4.5	6.5
ENE	.5	1.3	.4									2.3	4.4
E	.9	1.0	.4	.2								2.5	5.1
ESE	.4	.4	.1	.3								1.3	6.2
SE	.1	.6	.2									1.0	5.2
SSE	.2	.1	.1									.4	4.3
S	.8	.4	.3	.2	.1							1.8	6.5
SSW	1.2	.8	.8	1.0								3.7	7.1
SW	2.2	1.7	1.8	2.2	.5	.3						8.7	8.7
WSW	1.7	3.5	5.4	3.8	2.5	.9						17.7	10.5
W	3.9	5.2	4.7	3.8	.9	.1						18.5	7.6
WNW	1.4	2.6	1.8	.5	.1							6.5	6.2
NW	1.1	1.3	.9	.1								3.3	5.2
NNW	.9	.8	.9									2.5	5.2
VARBL													
CALM												15.3	
	18.9	24.9	21.2	14.1	4.3	1.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS _____ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.4	2.4	2.0	.4								6.2	6.0
NNE	1.8	3.1	2.0	1.4								8.4	6.5
NE	.5	2.8	1.5	.4								5.3	6.6
ENE	.5	1.7	1.3	.3								3.9	6.4
E	1.2	1.0	.6	.1								2.9	4.8
ESE	.3	1.4	.3									2.0	5.4
SE	.2	.2	.2	.2								.9	6.9
SSE	.5	.3	.4									1.3	5.3
S	.3	1.2	.9	.3	.1							2.8	7.0
SSW	.3	.5	.6	.5								2.0	7.8
SW	.4	2.5	2.2	2.4	1.1							8.5	9.9
WSW	.9	2.2	3.2	4.0	2.2	.8	.1					13.2	11.6
W	1.8	6.8	5.5	3.4	1.1	.5	.2					19.4	8.8
WNW	1.1	3.0	1.9	1.6								7.6	7.3
NW	1.3	.6	1.0	.6								3.5	6.1
NNW	1.0	1.2	.9	.2								3.2	5.8
VARBL													
CALM												8.8	
	13.7	30.9	24.6	16.0	4.4	1.3	.3					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG

ALL WEATHER — CLASS   HOURS (L.S.T.) 1500-1700

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	2.2	2.6	1.4	.1							7.6	7.1
NNE	1.2	1.7	3.1	1.3	.5			'				7.8	8.4
NE	1.2	2.2	4.0	1.5	.1							8.9	7.7
ENE	.2	1.4	1.9	.6								4.2	7.6
E	1.1	1.8	1.6	.1								4.6	5.6
ESE	.3	.3	.6	.2								1.5	7.0
SE	.2	.3	.4	.4								1.4	8.3
SSE		.2	.2	.2								.6	9.5
S	.4	.4	.9	.3								2.0	7.6
SSW	.4	1.2	1.2	.2	.2							3.2	7.4
SW	.9	1.8	2.9	1.2	.4	.1						7.3	8.3
WSW	1.1	1.5	3.7	2.2	1.0	.3						9.7	9.9
W	.9	3.5	5.8	7.0	1.8	.8		.1				19.9	11.1
WNW	.9	1.9	2.3	1.2	.4							6.7	8.2
NW	1.1	1.7	.8	.6	.1	.1						4.4	6.6
NNW	.6	.4	.6	.3	.1							2.2	6.8
VARBL													
CALM												7.8	
	11.8	22.7	32.6	18.8	4.8	1.3		.1				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.6	1.4	.9	.1							4.6	7.4
NNE	1.2	3.5	3.0	1.0	.4							9.1	7.3
NE	.6	3.0	3.8	1.9	.3							9.7	8.3
ENE	1.2	3.0	2.2	.9								7.2	6.6
E	1.5	2.6	2.0	.2								6.3	5.6
ESE	.4	.3	.9	.5								2.2	7.9
SE	.8	.9	.9	.4								2.9	6.2
SSE	.4	.5	1.0									1.9	5.9
S	1.0	1.8	1.0	.6	.1							4.5	6.2
SSW	1.1	.5	.8	.2								2.7	5.3
SW	1.0	2.3	2.2	1.3		.1						6.8	7.7
WSW	.6	1.3	1.5	1.0	.3							4.7	8.5
W	.9	3.3	4.0	2.9	.8							11.8	9.0
WNW	.6	1.4	2.4	1.6	.1							6.1	8.2
NW	.6	1.6	1.8	.3	.1							4.5	6.8
NNW	.8	1.4	.6	.5		.1						3.4	6.8
VARBL	--												
CALM												11.4	
	13.3	29.2	29.2	14.3	2.3	.2						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.4	.3	.3	.1	.1						3.0	6.9
NNE	.9	1.4	1.4	1.0	.2							4.8	7.7
NE	1.1	2.6	1.1	.9	.4							6.0	7.1
ENE	1.1	1.4	.5									3.0	4.3
E	1.4	.9	.3									2.6	3.8
ESE	.6	.9	.5	.3								2.4	6.2
SE	1.4	2.0	1.2	.2								4.8	5.4
SSE	1.2	3.3	1.8	.5								6.9	6.1
S	1.9	5.6	1.5	.3								9.4	5.1
SSW	1.4	4.1	1.0	.1								6.6	5.0
SW	1.4	4.0	2.3	.5	.1							8.3	6.4
WSW	.5	3.8	1.6	.6	.2							6.8	6.9
W	1.0	3.9	2.3	.4								7.5	6.2
WNW	.5	1.2	1.0	.2		.1						3.0	6.5
NW	.5	.8	.5	.1	.1	.1						2.2	7.1
NNW	.3	.3	.3	.1	.1							1.2	7.4
VARBL													
CALM												21.6	
	16.0	37.4	17.6	5.7	1.3	.3						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS — ALL — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.5	1.0	.5	.1	.0						4.3	6.3
NNE	1.0	1.9	1.6	.7	.2							5.5	7.0
NE	.8	1.8	1.7	.8	.1							5.2	7.2
ENE	.6	1.2	.8	.2								2.9	6.0
E	.9	1.0	.6	.1								2.6	5.0
ESE	.4	.5	.3	.2								1.5	6.0
SE	.5	.7	.5	.2								1.8	5.8
SSE	.8	.8	.6	.1								2.3	5.3
S	1.9	2.5	.9	.3	.0							5.6	5.0
SSW	1.8	2.7	1.0	.4	.0	.0						6.0	5.3
SW	2.2	4.2	3.0	1.4	.3	.1						11.3	7.0
WSW	1.5	3.2	2.9	1.8	.9	.3	.0					10.6	8.6
W	1.7	4.1	3.4	2.4	.6	.2	.0	.0				12.4	8.1
WNW	.9	1.8	1.3	.7	.1	.0						4.8	6.9
NW	.9	1.1	.7	.3	.1	.0						3.1	5.9
NNW	.8	.7	.6	.2	.0	.0						2.3	5.7
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	17.8	
	17.9	29.9	21.1	10.3	2.3	.6	.0	.0				100.0	5.6

TOTAL NUMBER OF OBSERVATIONS _____ 7440

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	1.4	1.6	.1	.2	.1						3.8	7.9
NNE	.6	1.4	.8	.3		.1	.1					3.3	7.7
NE	.2	.9	.9	.6								2.6	7.9
ENE	.6	.2	.1									.9	3.5
E	.2	.1	.1									.4	4.5
ESE		.1										.1	5.0
SE	.4	.7										1.1	3.9
SSE	1.4	1.1	.3									2.9	3.8
S	3.2	4.2	1.1									8.6	4.2
SSW	4.0	7.3	1.9	.3								13.6	4.8
SW	2.1	9.4	6.9	2.0	.6							21.0	7.0
WSW	1.3	5.4	4.8	1.9								13.4	7.1
W	.7	2.2	1.4	.2								4.6	6.1
WNW	.6	1.1	1.2									2.9	5.6
NW	.4	1.0	.9	.2								2.6	6.1
NNW	.1	.2	.2	.7								1.2	9.9
VARBL													
CALM												17.1	
	16.2	37.0	22.2	6.3	.8	.2	.1					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS _____ 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.7	.6	.7								2.4	7.8
NNE	.6	1.2	1.0	.8		.2						3.8	8.3
NE	.4	.8	.1	.3								1.7	6.1
ENE	.4	.2										.7	3.0
E	.2	.1										.3	2.7
ESE	.1	.1										.2	3.5
SE	.3	.1										.4	2.3
SSE	1.0	.1	.1									1.2	2.8
S	2.6	2.9	.4									5.9	4.0
SSW	3.0	4.6	1.6	.1								9.2	4.8
SW	4.4	9.9	6.6	2.7								23.6	6.3
WSW	3.8	6.3	3.9	2.6	.7	.2						17.4	7.1
W	2.0	2.9	1.2	.2								6.3	4.9
WNW	.3	1.3	.8	.1							*	2.6	5.9
NW	.4	1.0	1.0	.4								2.9	6.7
NNW	.7	.4	.4	.4								2.0	6.9
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	19.3	
	20.9	32.7	17.7	8.3	.7	.4						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS ___ 900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	1.1	.8	.1								3.0	5.1
NNE	.4	.9	.8	.7	.3							3.1	9.0
NE	.4	.8	.3	.3								1.9	6.3
ENE	.2	.1										.3	3.0
E	.4											.4	2.5
ESE	.3											.3	2.3
SE	.4	.2										.7	3.2
SSE	.6	.1										.7	2.3
S	1.3	1.8	.3									3.4	3.8
SSW	1.8	3.3	1.7	.6								7.3	5.6
SW	3.1	9.6	7.4	3.3	.6							24.0	7.3
WSW	1.8	5.1	3.4	3.1	.7	.1						14.2	8.0
W	2.3	3.7	1.6	.2								7.8	5.1
WNW	1.3	1.2	1.4	.1	.1							4.2	5.8
NW	.4	1.0	.3	.2								2.0	5.7
NNW	.9	.6	1.0	.3								2.8	6.4
VARBL													
CALM												23.8	
	16.9	29.4	19.1	9.0	1.7	.1						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALNSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.6	1.1	1.3	1.3	.4							5.8	7.8
NNE	1.1	1.7	.7	.1	.3							3.9	6.0
NE	1.0	.9	.3	.6								2.8	5.9
ENE	.4	.4	.7	.2								1.8	6.0
E	.3	.4										.8	4.1
ESE	.2	.6										.8	4.0
SE	.4	.1										.6	2.8
SSE	.1	.1										.2	3.5
S	.4	.2		.2	.1							1.0	7.0
SSW	.4	1.3	.9	1.1	.2							4.0	8.7
SW	1.2	1.7	4.7	7.4	1.7	.1						16.8	11.1
WSW	.9	3.8	5.3	7.1	3.7	1.1	.2					22.1	12.1
W	3.7	4.2	3.9	3.2	.4	.1						15.6	7.5
WNW	1.9	1.7	.7	.1								4.3	4.7
NW	1.0	1.1	.9	.3								3.3	6.3
NNW	.7	.4	1.0	.9		.1						3.1	8.6
VARBL	.												
CALM												13.2	
	15.4	19.8	20.3	22.7	6.9	1.4	.2					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS   900

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

1200-1400 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.7	1.7	3.4	1.3	.1							8.2	7.4
NNE	.9	2.3	1.7	1.0	.1							6.0	7.0
NE	1.1	1.8	1.3	.2								4.4	5.5
ENE	.3	1.1	.7									2.1	5.5
E	.3	.8	.6									1.7	5.4
ESE	.2	.3	.1									.7	4.7
SE	.1											.1	2.0
SSE		.1										.1	4.0
S	.3	1.1	.7	.3								2.4	6.7
SSW	.2	.3	1.2	.8	.1							2.7	9.5
SW	.9	2.0	2.9	3.7	1.2	.3	.2					11.2	11.0
WSW	.8	3.0	4.4	8.6	2.6	.9		.1				20.3	12.1
W	2.1	3.6	6.9	5.8	1.1	.7	.1					20.2	9.9
WNW	1.1	1.1	1.6	.6	.2							4.6	7.5
NW	1.0	.8	.9	.6	.2							3.4	7.3
NNW	1.1	.8	1.1	.8	.3	.1						4.2	8.0
VARBL													
CALM												7.6	
	12.2	20.8	27.4	23.6	6.0	2.0	.3	.1				100.0	8.6

TOTAL NUMBER OF OBSERVATIONS _____ 900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.0	2.2	1.3	.2							6.9	7.9
NNE	.8	2.2	3.0	1.7	.2							7.9	8.0
NE	.3	2.2	2.9	.9								6.3	7.7
ENE	.6	1.6	1.1	.4								3.7	6.5
E		.4	.2	.1								.8	7.3
ESE	.2	.3	.2									.8	4.4
SE	.1	.1	.2	.1								.6	6.4
SSE	.2	.3	.2	.1								.9	6.0
S	.4	1.1	1.4	.1								3.1	6.8
SSW	.8	1.0	1.4	.3								3.6	6.8
SW	1.0	1.7	4.4	2.2	.9	.1						10.3	9.3
WSW	1.0	1.8	3.8	6.1	2.4	.4						15.6	11.5
W	1.1	2.2	4.8	6.1	2.6	.3						17.1	11.4
WNW	.3	1.6	2.1	1.4	.3							5.8	8.8
NW	.8	1.8	1.2	.4	.2							4.4	6.9
NNW	.3	1.2	1.4	.7	.3	.1						4.1	9.0
VARBL													
CALM												8.2	
	9.1	21.6	30.8	22.1	7.2	1.0						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS _____ 900

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME		YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.9	.8	1.1	.2							4.8	7.6
NNE	1.3	2.9	2.2	1.7	.3	.1						8.6	7.7
NE	1.6	4.0	1.3	1.3	.2							8.4	6.5
ENE	1.3	2.1	1.3	.1								4.9	5.5
E	.6	1.0	.3	.1								2.0	5.4
ESE	.3	.3										.7	3.8
SE	.8	1.1	.2									2.1	4.4
SSE	.9	1.0	.4	.2								2.6	5.3
S	1.7	3.8	1.6	.1								7.1	5.2
SSW	.6	3.1	1.0	.2	.1	.1						5.1	6.5
SW	1.2	3.9	3.2	.9	.4							9.7	7.3
WSW	.3	1.7	2.9	3.1	.6							8.6	10.3
W	.8	2.6	4.6	2.7	.6	.1						11.4	9.2
WNW	.9	.9	1.4	1.6								4.8	8.3
NW	.3	1.1	1.2	.6								3.2	7.2
NNW	.6	1.4	.7	.7								3.3	6.9
VARBL													
CALM												12.8	
	13.9	32.8	23.4	14.3	2.4	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS   900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	.8	.9	.8	.1							3.6	7.7
NNE	1.1	1.1	1.0	.7		.1						4.0	6.8
NE	.8	1.3	1.2	.6								3.9	6.8
ENE	.7	.3		.3								1.3	4.9
E	.8	.6										1.3	3.5
ESE	.3	.6	.2									1.1	4.6
SE	1.0	1.4	.4									2.9	4.5
SSE	.8	1.7	1.0									3.4	5.2
S	2.7	6.0	2.7	.3								11.7	5.2
SSW	2.1	6.1	2.8	.3								11.3	5.5
SW	2.1	6.4	3.8	1.7	.4	.1						14.6	7.0
WSW	.6	3.9	3.9	1.8	.1							10.2	7.9
W	.6	2.8	3.1	.7								7.1	7.0
WNW	.1	.8	.8	.3								2.0	7.4
NW	.7	1.0	1.3	.4	.1							3.6	7.1
NNW	.2	1.3	.6	.2	.2							2.6	7.3
VARBL													
CALM												15.4	
	15.4	36.1	23.7	8.1	1.0	.2						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS   900

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS — ALL HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.3	1.4	.8	.2	.0						4.8	7.5
NNE	.8	1.7	1.4	.9	.2	.1	.0					5.1	7.6
NE	.7	1.6	1.1	.6	.0							4.0	6.7
ENE	.6	.8	.5	.1								2.0	5.5
E	.4	.4	.2	.0								1.0	4.8
ESE	.2	.3	.1									.6	4.2
SE	.5	.5	.1	.0								1.1	4.2
SSE	.6	.6	.3	.0								1.5	4.5
S	1.6	2.6	1.0	.1	.0							5.4	5.0
SSW	1.6	3.4	1.6	.5	.1	.0						7.1	5.8
SW	2.0	5.6	5.0	3.0	.7	.1	.0					16.4	8.0
WSW	1.3	3.9	4.1	4.3	1.3	.3	.0	.0				15.2	9.8
W	1.7	3.0	3.5	2.4	.6	.2	.0					11.3	8.5
WNW	.8	1.2	1.2	.5	.1							3.9	6.9
NW	.6	1.1	1.0	.4	.1							3.2	6.7
NNW	.6	.8	.8	.6	.1	.0						2.9	7.8
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	14.7	
	15.0	28.8	23.1	14.3	3.3	.7	.1	.0				100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 7200

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.4	.5	.5	.1							3.7	6.4
NNE	.6	1.3	1.4	.6		.1						4.1	7.6
NE	.4	1.0	.9	.1								2.4	6.1
ENE	.2	.8	.3									1.3	5.3
E	.2											.2	1.5
ESE	.1	.1										.2	4.5
SE	.3	.1										.4	3.3
SSE	.8	.2										1.0	2.6
S	2.3	2.7	1.4	.2								6.6	4.8
SSW	2.4	5.6	2.6	.6								11.2	5.6
SW	2.2	7.1	10.5	4.1	.9							24.7	8.1
WSW	1.3	4.0	5.7	3.9	1.0	.4						16.2	9.4
W	1.7	2.3	2.4	1.2	.1	.1						7.7	7.2
WNW	.2	.5	.8	.1								1.6	6.5
NW	.6	.8	.8	.3								2.5	6.5
NNW	.2	.9	.6	.4								2.2	7.3
VARBL													
CALM												14.1	
	14.6	28.6	27.8	12.2	2.0	.6						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 930

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	.3	.5	.1							2.9	6.4
NNE	.8	1.1	1.2	.1								3.1	6.0
NE	.3	.5	.6	.4	.1							2.0	7.9
ENE	.3	.5										.9	4.0
E	.2	.3										.5	3.4
ESE	.1											.1	2.0
SE	.1											.1	2.0
SSE	.9	.2										1.1	2.6
S	1.6	1.3	.4	.2								3.5	4.6
SSW	2.6	3.4	2.7	1.0								9.7	5.9
SW	2.7	8.5	12.0	5.1	.5							28.8	7.9
WSW	2.0	3.4	4.9	4.2	1.2	.3						16.1	9.2
W	1.9	2.9	1.9	.8	.3	.1						8.0	6.6
WNW	.6	1.2	.6	.1								2.6	5.7
NW	.4	1.0	.4	.5								2.4	6.7
NNW	.2	.9	.5	1.0								2.6	8.1
VARBL													
CALM												15.6	
	15.8	26.2	25.8	13.9	2.3	.4						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS ___ 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

CONDITION

0600-0800 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	.9	1.1	.4	.1							3.3	6.8
NNE	.6	1.2	.6	.2								2.7	5.5
NE	.6	1.1	.9									2.6	5.1
ENE	.5	.6	.1									1.3	3.4
E	.2											.2	2.5
ESE	.1	.1										.2	3.0
SE	.6											.6	2.7
SSE	.8	.2										1.0	2.6
S	1.3	.6	.8	.3								3.0	5.4
SSW	.9	3.4	3.0	2.0	.1							9.5	7.7
SW	3.7	7.3	9.9	7.4	1.0							29.2	8.3
WSW	1.8	3.9	4.7	4.5	1.4	.3						16.7	9.4
W	1.8	2.9	1.6	1.1								7.4	6.3
WNW	.9	.9	.5	.3								2.6	6.0
NW	.1	.5	.9	.4								1.9	7.9
NNW	.2	.3	.6	.4								1.6	8.3
VARBL													
CALM												16.1	.
	15.1	24.0	24.7	17.2	2.6	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.7	1.1	.9	.2							4.6	7.8
NNE	.9	1.3	.8	.3	.3							3.5	6.9
NE	.5	.8	.8	.4								2.7	6.7
ENE	1.0	.5										1.5	3.3
E	1.0	.2										1.2	2.5
ESE	.4	.1	.1									.6	3.7
SE	.4	.2		.1								.8	4.1
SSE	.1	.1	.1									.3	5.7
S	.5	.5	.4		.1							1.6	6.0
SSW	.3	.6	.8	2.4	.4	.2						4.7	11.6
SW	.6	1.6	4.4	10.2	4.1	.9	.1					21.9	13.3
WSW	1.4	2.0	5.2	10.4	4.4	1.7	.2					25.4	13.1
W	1.7	3.3	3.7	3.1	1.1	.2	.2					13.3	9.4
WNW	.9	.5	.2	.3								1.9	5.6
NW	.3	.5	.4	.4								1.7	7.0
NNW	.3	.8	.4	1.0								2.5	8.3
VARBL													
CALM												11.6	
	11.4	14.9	18.3	29.6	10.6	3.0	.5					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	UCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.1	1.4	.9	.1							4.3	7.8
NNE	1.6	1.7	1.1	.4	.1							4.9	6.0
NE	1.1	1.5	1.3	.5								4.4	6.2
ENE	.8	1.2	.4									2.4	4.9
E	.8	1.2	.3									2.3	4.4
ESE	.5	.3										.9	3.4
SE	.6	.3										1.0	3.1
SSE	.2	.2										.4	4.0
S	.4	.3	.3	.1								1.2	5.6
SSW	.3	.3	.8	1.9	.4							3.8	12.0
SW	.4	.8	2.8	7.5	2.4	1.4	.3					15.6	14.1
WSW	.4	1.9	4.5		6.9	2.8	.2					26.1	14.5
W	1.5	2.2	3.2	4.9	2.9	.6	.6	.1				16.1	12.4
WNW	.8	.4	.9	1.0	.2	.3						3.5	9.8
NW	.3	.6	.9	.8	.2							2.8	9.2
NNW	.9	1.2	.8	1.2	.3							4.3	8.3
VARBL													
CALM												6.0	
	11.5	15.3	18.6	28.6	13.5	5.2	1.2	.1				100.0	10.7

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 G-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER   1500-1700
CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.3	1.5	1.6								5.4	8.1
NNE	1.3	3.1	1.8	.9								7.1	6.2
NE	.6	3.2	1.4	.9	.1							6.2	6.9
ENE	.8	.9	.8	.3								2.7	6.0
E	.9	.2	.3									1.4	4.0
ESE	.2	.1	.1									.4	4.3
SE	.2	.4	.3									1.0	4.9
SSE		.2	.2									.4	7.0
S	.6	.4	.8	.4								2.3	6.8
SSW	.5	.5	1.4	1.3								3.8	8.9
SW	.9	1.8	6.1	5.9	2.0	.4						17.2	11.3
WSW	1.2	2.9	4.7	8.1	3.1	1.0	.1					21.1	12.2
W	.8	1.9	3.2	6.0	2.2	1.4	.3					15.8	12.9
WNW	.3	.6	1.0	.8	.2	.1						3.0	9.5
NW	.2	.5	.5	1.1	.1							2.5	9.3
NNW	.6	.6	1.3	.5								3.1	7.4
VARBL													
CALM												6.7	
	10.1	18.9	25.5	27.7	7.7	2.9	.4					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 66 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.6	1.1	.8	.1							3.2	7.7
NNE	1.0	1.8	2.3	.5								5.6	6.6
NE	.6	1.4	1.1	.4								3.5	6.4
ENE	1.2	.8	.1									2.0	3.7
E	1.0	.6	.1									1.7	3.3
ESE	.1	.4	.1									.6	5.0
SE	.9	.5										1.4	3.5
SSE	.8	1.5	.2									2.5	4.4
S	1.5	2.8	.6	.1								5.1	4.7
SSW	1.5	5.1	2.3	.8	.1							9.7	6.1
SW	1.0	5.7	8.2	4.3	.6	.2						20.0	8.7
WSW	.9	3.1	4.0	5.1	1.0	.5						14.5	10.3
W	.6	1.9	4.0	4.1	1.0	.3						11.9	10.5
WNW	.6	.5	.5	.5								2.3	7.3
NW	.2	.2	.6	.3								1.4	7.9
NNW	.5	1.4	1.1									3.0	5.6
VARBL													
CALM												11.5	
	13.0	28.5	26.2	16.9	2.8	1.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.8	1.0	.8								3.1	7.5
NNE	.6	1.0	1.1	.3								3.0	6.6
NE	.9	.8	.5	.4	.1							2.7	6.9
ENE	.3	1.0	.2	.1								1.6	5.1
E	.1	.3										.4	4.0
ESE		.2										.2	5.0
SE	.5	1.2	.2									1.9	4.5
SSE	.6	.6										1.3	3.3
S	2.3	5.7	.6	.6								9.2	5.0
SSW	2.3	6.1	3.8	.8								12.9	5.9
SW	2.0	7.3	8.7	3.9	.6	.1	.1					22.8	8.0
WSW	.9	5.2	5.2	3.9	1.4	.2						16.7	9.3
W	.5	2.7	1.8	1.3	.3	.1						6.8	8.1
WNW	.5	.5	.2	.3	.1							1.7	7.0
NW	.6	1.1	1.1	.2								3.0	6.4
NNW	.9	.8	.5	.3	.1							2.6	6.1
VARBL													
CALM												10.0	
	13.8	35.2	24.9	12.9	2.7	.4	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.1	1.0	.8	.1							3.8	7.4
NNE	.9	1.6	1.3	.4	.1	.0						4.3	6.4
NE	.7	1.3	.9	.4	.0							3.3	6.5
ENE	.6	.8	.2	.1								1.7	4.6
E	.5	.4	.1									1.0	3.6
ESE	.2	.2	.0									.4	4.0
SE	.5	.3	.1	.0								.9	3.8
SSE	.5	.4	.1									1.0	3.7
S	1.3	1.8	.7	.3	.0							4.1	5.1
SSW	1.3	3.1	2.2	1.3	.1	.0						8.1	7.1
SW	1.7	5.0	7.8	6.0	1.5	.4	.1					22.5	9.6
WSW	1.2	3.3	4.9	6.2	2.5	.9	.1					19.1	11.3
W	1.3	2.5	2.7	2.8	1.0	.4	.1	.0				10.9	9.9
WNW	.6	.7	.6	.4	.1	.1						2.4	7.5
NW	.4	.7	.7	.5	.0							2.3	7.6
NNW	.5	.8	.7	.6	.1							2.7	7.4
VARBL													
CALM												11.5	
	13.2	24.0	24.0	19.9	5.5	1.7	.3	.0				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS   7440

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

0000-0200 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.6	.4	.6		.1						2.0	9.3
NNE	.3	1.9	1.1	.1								3.4	5.9
NE	1.1	.7	.2									2.0	3.9
ENE	.8	.3	.1									1.2	3.5
E	.1	.1	.2									.4	7.3
ESE	.1	.4										.6	3.8
SE	.2	.2	.1									.6	4.0
SSE	.6	.3	.1									1.0	4.0
S	1.0	2.0	.3	.4								3.8	5.5
SSW	.9	2.2	2.3	2.7	.6							8.7	8.9
SW	2.1	4.6	9.4	7.8	2.2	1.3	.1					27.6	10.3
WSW	1.2	4.1	4.1	6.3	2.1	.4	.2	.1				18.7	10.9
W	1.0	2.2	3.0	1.2	.7	.6						8.7	9.3
WNW	.9	.8	.8	.2								2.7	5.9
NW	.1	.9	.3	.4								1.8	7.8
NNW	.4	.3	.4	.1								1.3	5.8
VARBL													
CALM												15.7	
	11.2	21.7	23.1	19.9	5.6	2.4	.3	.1				100.0	7.6

TOTAL NUMBER OF OBSERVATIONS _____ 900

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.7	.4	.6								2.2	7.1
NNE	.8	1.4	.3									2.6	4.4
NE	.6	.8	.4	.1								1.9	5.4
ENE	.6	.3										.9	2.9
E	.3		.3	.1								.8	6.1
ESE			.1									.1	7.0
SE	.4	.3										.8	3.3
SSE	.4	.1										.6	2.4
S	1.3	2.0	.2	.3	.1							4.0	5.4
SSW	.9	3.3	2.8	1.3	.4	.1						8.9	8.0
SW	1.6	6.1	9.8	7.4	1.8	.3	.2	.1				27.3	9.8
WSW	1.1	3.9	4.6	6.9	1.7	1.1	.3					19.6	11.2
W	.6	2.1	2.9	1.6	.7	.3						8.1	10.0
WNW	.4	1.3	.7									2.4	5.4
NW	.2	1.0	.6									1.8	5.8
NNW	.3	.4	.8	.2								1.8	6.6
VARBL													
CALM												16.3	
	10.1	23.9	23.9	18.6	4.7	1.9	.6	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS   900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	58-77	NOV
STATION	STATION NAME	YEARS	MONTH

	ALL WEATHER	0600-0800
	CLASS	HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIP.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	.8	.3	.3								2.3	5.7
NNE	.6	.6	.7	.2								2.0	6.2
NE	.8	.4	.1	.1								1.4	4.3
ENE	1.0											1.0	1.9
E	.3	.4	.2	.1								1.1	5.5
ESE	.2	.1	.2									.6	5.4
SE	.2	.1										.3	2.3
SSE	.3	.2										.6	3.2
S	.9	1.2	.4	.2								2.8	5.4
SSW	1.1	3.3	2.3	2.2	.8	.1						9.9	8.5
SW	1.8	6.2	6.3	7.3	2.2	.2	.2					26.3	9.9
WSW	1.3	3.4	4.6	6.7	1.6	1.8	.1					19.4	11.5
W	1.1	3.8	2.6	1.6	.7	.3	.1					10.1	8.4
WNW	.7	.6	.7									1.9	5.4
NW	.4	.9	.6	.1								2.0	5.9
NNW	.4	1.2	.2	.4								2.3	6.1
VARBL													
CALM												15.9	
	12.1	23.3	21.2	19.3	5.2	2.4	.4					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 900

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	.7	.7	.4								2.4	6.9
NNE	1.0	1.1	.9	.2	.2							3.4	6.4
NE	.9	1.1										2.0	3.4
ENE	.3	.4	.2									1.0	4.7
E	.	.2										.7	3.2
ESE	.7	.3	.2									1.2	4.0
SE	.4	.1										.6	2.6
SSE	.3											.3	3.0
S	.4	.7	.1	.1	.1							1.4	5.5
SSW	.8	.8	.9	1.9	1.7	.3						6.3	12.1
SW	.7	3.0	6.1	9.4	4.7	1.3	.1					25.3	12.7
WSW	.9	2.3	4.8	7.4	4.8	2.2	.4					22.9	13.7
W	1.4	2.8	2.7	3.0	.7	1.1	.4	.2				12.3	11.5
WNW	.2	.7	.4	.4	.1			.1				2.0	9.4
NW	1.1	.4	.2	.6	.1							2.4	6.5
NNW	.8	.7		.1								1.6	3.9
VARBL													
CALM												14.0	
	11.1	15.3	17.2	23.7	17.3	5.0	1.0	.3				100.0	9.6

TOTAL NUMBER OF OBSERVATIONS   900

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.6	1.3	1.0	.6		.2						4.7	6.7
NNE	2.2	1.1	.9	.3	.2							4.8	5.5
NE	1.1	1.6	.1	.1								2.9	4.0
ENE	1.2	1.4	.3	.1								3.1	4.3
E	.7	.4	.3									1.4	4.4
ESE	.4	.4										.9	3.1
SE	.2	.2										.4	3.8
SSE	.2											.2	2.0
S	.2	.4	.1	.1								.9	5.9
SSW	.4	.6	.8	2.6	1.3	.3						6.0	13.2
SW	.4	.8	2.6	6.9	4.9	2.4	.6					18.6	15.8
WSW	.2	1.3	2.8	9.6	5.8	4.4	.8	.1				25.0	16.3
W	1.2	1.2	2.3	3.6	2.6	2.1						13.0	13.7
WNW	1.0	1.0	1.3	1.1	.8	.1						5.3	9.6
NW	1.1	.9	.9	.4								3.3	6.0
NNW	.7	.8	.4	.1	.2							2.2	6.5
VARBL													
CALM	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	╳	7.2	
	13.0	13.6	13.9	25.4	15.8	9.7	1.3	.1				100.0	11.4

TOTAL NUMBER OF OBSERVATIONS _____ 900

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.2	1.2	.4	.2							3.8	7.3
NNE	1.2	1.1	1.2	.3	.3							4.2	6.9
NE	2.4	3.8	1.7	.1								8.0	4.8
ENE	1.1	1.4	.4									3.0	4.4
E	.4	.6	.1	.2								1.3	5.7
ESE	.2											.2	2.0
SE	.2	.2	.1									.6	4.8
SSE		.3										.3	4.3
S	.7	1.0	.6	.9								3.1	7.3
SSW	.2	.8	2.9	2.1	.4	.1	.1					6.7	10.9
SW	.8	2.7	4.6	7.2	2.7	.8	.1					18.8	11.9
WSW	.8	1.7	3.2	6.7	4.8	2.0	.6	.1				19.8	14.6
W	.4	2.1	2.1	4.0	2.8	1.8		.1				13.3	13.8
WNW	.6	.9	1.3	.4	.2	.1						3.6	8.2
NW	.6	.7	.4	.3		.1						2.1	7.3
NNW	1.0	.8	.6		.1							2.4	5.2
VARBL													
CALM												8.7	
	11.3	19.2	20.5	22.8	11.6	4.9	.8	.2				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS _____ 899

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 66

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	.9	.4	1.0								3.6	6.7
NNE	1.2	1.1	.4	.2	.1							3.1	5.5
NE	2.1	1.3	.8									4.2	4.3
ENE	.8	.7	.4									1.9	4.4
E	.9	.6	.2									1.7	3.7
ESE		.1										.1	5.0
SE	.2	.3	.2									.8	5.4
SSE	.8	.4	.2									1.4	3.7
S	1.0	3.2	.7	.3								5.2	5.3
SSW	1.0	2.7	3.0	2.5	.2							9.4	8.4
SW	1.1	4.2	7.8	6.8	1.8	.4						22.2	10.2
WSW	1.2	2.3	4.6	6.9	2.1	1.3	.1					18.6	12.0
W	1.2	1.9	3.1	3.8	.8	.4						11.3	10.5
WNW	.6	.9	.8	.1								2.3	6.2
NW	.2	.4	.3	.1								1.1	5.9
NNW	.6	.8	.4	.3								2.1	6.4
VARBL													
CALM												10.9	
	14.2	22.0	23.5	22.1	5.0	2.2	.1					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS   897

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	.6	1.0	.8								3.0	7.7
NNE	1.0	1.1	.8	.1	.2							3.2	6.0
NE	1.8	1.3	.7									3.8	4.3
ENE	.7	.4										1.1	2.9
E		.2	.1									.3	5.7
ESE	.4	.1										.6	2.8
SE		.4	.2									.7	6.2
SSE	.3	.4	.2									1.0	4.6
S	1.7	2.6	.3	.4								5.0	5.0
SSW	1.6	4.6	3.8	2.0	.3	.1						12.4	7.6
SW	1.4	4.9	9.5	6.7	2.8	.6						25.9	10.3
WSW	1.2	2.6	5.7	5.8	2.2	1.1						18.6	11.3
W	.9	2.0	2.2	1.6	.8	.1	.1					7.7	9.4
WNW	.4	.3	.8	.2	.1							1.9	7.3
NW	.8	.7	.6									2.0	4.9
NNW	.4	.3	.1									.9	3.9
VARBL													
CALM												11.9	
	13.4	22.6	26.0	17.6	6.5	1.9	.1					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS   897

USAFETAC FORM 0-8-5 (OL-A) JUL 64 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	.8	.7	.6	.0	.0						3.0	7.1
NNE	1.0	1.2	.8	.2	.1							3.4	5.9
NE	1.3	1.4	.5	.1								3.3	4.4
ENE	.8	.6	.2	.0								1.7	3.9
E	.4	.3	.2	.1								1.0	4.9
ESE	.3	.2	.1									.5	3.8
SE	.3	.3	.1									.6	4.2
SSE	.4	.2	.1									.7	3.7
S	.9	1.6	.3	.4	.0							3.3	5.6
SSW	.9	2.3	2.3	2.2	.7	.1	.0					8.5	9.3
SW	1.2	4.1	7.3	7.5	2.9	.9	.2	.0				24.0	11.2
WSW	1.0	2.7	4.3	7.0	3.1	1.8	.3	.0				20.3	12.9
W	1.0	2.3	2.6	2.5	1.2	.8	.1	.0				10.6	11.1
WNW	.6	.8	.8	.3	.2	.0		.0				2.8	7.5
NW	.6	.7	.5	.3	.0	.0						2.1	6.3
NNW	.6	.7	.4	.2	.0							1.8	5.7
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	12.6	
	12.1	20.2	21.2	21.2	8.3	3.8	.6	.1				100.0	8.6

TOTAL NUMBER OF OBSERVATIONS _____ 7193

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

0000-0200 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	1.7	1.6	.4								4.2	6.7
NNE	1.2	1.6	.4	.1	.1							3.4	5.2
NE	.5	.9	.6									2.0	5.3
ENE	.3	.4										.8	3.7
E	.2											.2	2.5
ESE	.3											.3	2.0
SE													
SSE	.3		.2									.5	4.8
S	1.3	1.0	.2									2.5	3.9
SSW	1.3	2.3	2.0	2.3	.6	.3						8.8	9.4
SW	1.1	5.7	9.1	8.2	4.6	.9	.4					30.0	11.5
WSW	1.1	3.7	5.2	5.5	3.4	1.1	.4					20.3	11.9
W	.8	2.6	2.3	1.6	.4	.1						7.7	8.5
WNW	.6	.8	1.1	.1								2.6	6.0
NW	.3	.6	.6	.6	.1							2.4	8.4
NNW	.3	1.2	1.1	.2	.1							2.9	7.4
VARBL													
CALM												11.3	.
	10.1	22.4	24.5	19.0	9.5	2.4	.9					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS   930

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.1	.6	.2								2.7	5.4
NNE	.5	.9	.5	.5								2.5	7.0
NE	.2	1.7	.5									2.5	5.3
ENE	.5	.3										.9	3.1
E	.6	.2										.9	3.0
ESE	.1	.1										.2	3.5
SE	.1	.1										.2	3.5
SSE	.4											.4	2.0
S	.5	1.5	.4									2.5	5.0
SSW	1.1	2.5	2.2	1.8	.8	.1						8.4	8.6
SW	1.5	5.4	6.9	10.0	4.2	1.7	.4	.1				30.2	11.9
WSW	1.6	4.1	4.7	6.3	1.9	1.5						20.2	11.0
W	.9	2.5	2.6	1.2	.5	.1						7.7	8.4
WNW	.6	1.8	.8									3.2	5.3
NW	.5	1.0	.6	.6	.2							3.0	8.3
NNW	.4	1.1	.8	.3								2.6	6.5
VARBL													
CALM												11.9	
	10.5	24.2	20.6	21.1	7.6	3.4	.4	.1				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAFETAC FORM 0-8-5 (OL-A) JUL 64 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.4	.6	1.0	.8								2.8	7.8
NNE	1.1	1.1	.3	.9	.1							3.4	7.0
NE	.9	1.0	.2									2.0	4.2
ENE	.9	.5	.1									1.5	3.5
E	.3	.2										.5	2.8
ESE	.4											.4	2.3
SE													
SSE		.1		.1								.2	8.0
S	.5	.3	.3	.1								1.3	5.1
SSW	1.0	2.3	1.3	1.9	.6	.2						7.3	9.5
SW	1.5	5.1	6.9	9.1	4.2	1.8	.3					28.9	11.8
WSW	1.0	4.0	4.9	8.1	3.5	1.6	.2					23.3	12.2
W	1.4	2.2	2.3	1.0	.2							7.0	7.1
WNW	.5	1.1	.6	.4	.2							2.9	7.0
NW	1.0	.6	.3	.5	.1							2.6	6.5
NNW	.3	.3	.8	.8								2.2	8.4
VARBL													
CALM												13.5	
	11.2	19.4	19.0	23.7	9.0	3.7	.5					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS _____ 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.3	.6	1.2	.4	.1							2.7	8.7
NNE	.9	1.3	.3	.4								2.9	5.8
NE	.6	1.2	.8	.2								2.8	6.0
ENE	.6	.9	.1									1.6	4.2
E	.1	.3	.1									.5	4.8
ESE		.1										.1	4.0
SE	.3	.1										.4	3.5
SSE	.3	.2										.5	2.8
S	.9	.5	.2									1.6	4.1
SSW	.6	1.0	1.0	2.3	1.3	.3	.1					6.6	12.2
SW	1.3	4.1	7.5	9.0	5.5	1.8	.2	.1				29.6	12.4
WSW	.3	3.0	3.3	9.4	5.3	2.8						24.1	14.0
W	1.3	1.1	2.3	1.7	.4	.3						7.1	9.3
WNW	.2	.9	.8	.5								2.4	7.4
NW	.1	1.1	1.1	.8	.2							3.2	8.6
NNW	.1	.4	.9	.4								1.8	8.8
VARBL													
CALM												12.0	
	8.1	16.8	19.5	25.2	12.8	5.3	.3	.1				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 930

USAFETAC, FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.8	1.2	.4								3.3	6.4
NNE	1.3	1.2	1.6	.6								4.7	6.3
NE	.9	1.4	1.0									3.2	5.3
ENE	.2	.3										.5	3.6
E	.2	.1	.1									.4	3.8
ESE	.1	.1	.1									.3	4.7
SE	.1	.3										.4	4.3
SSE		.3										.3	4.7
S	.6	.6										1.3	3.3
SSW	.5	.6	1.1	.8	1.0	.4						4.4	11.9
SW	1.1	1.6	4.6	8.6	6.3	2.4	.8	.1				25.5	14.6
WSW	.3	1.5	6.1	10.1	6.7	3.7	.6	.3				29.4	15.2
W	.4	.8	2.2	3.0	2.5	.8						9.6	13.5
WNW	.2	1.2	.9	1.0	.1							3.3	8.6
NW	.5	1.3	1.0	.5								3.3	6.6
NNW	.1	.1	1.6	.5	.3							2.7	10.8
VARBL													
CALM												7.2	
	7.6	12.3	21.4	25.6	16.9	7.2	1.4	.4				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	2.5	1.3	.2	.3							5.4	6.4
NNE	1.3	1.1	2.2	.4								4.9	6.5
NE	.6	1.6	.9	.1								3.2	5.6
ENE	.2	.8	.1									1.1	4.6
E	.6	.1	.1									.9	3.3
ESE	.2											.2	2.0
SE	.1	.1										.2	3.5
SSE	.5											.5	2.2
S	.5	1.0	.2									1.7	4.3
SSW	.5	1.5	1.8	1.3	.4	.3						5.9	9.7
SW	.8	3.8	4.5	8.9	4.0	1.7	.3	.1				24.1	13.0
WSW	.4	2.8	5.6	8.8	5.5	2.9	.2					26.2	13.8
W	.5	1.7	1.9	2.8	1.9	.2	.1	.1				9.4	12.2
WNW		.9	.5	.2								1.6	7.2
NW	.5	.8	1.1	.2	.1							2.7	7.1
NNW	.6	1.2	.8	.3	.5							3.4	8.3
VARBL													
CALM												8.5	
	8.7	19.7	21.0	23.3	12.8	5.2	.6	.2				100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 930

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER   1800-2000
CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.2	.5	.6								4.6	5.8
NNE	.8	1.3	1.1	.1								3.2	5.7
NE	.6	1.2	.4	.2								2.5	5.3
ENE	.1	.4	.1									.6	5.2
E	.3	.2										.5	2.8
ESE													
SE	.1											.1	.2.0
SSE	.8	.3										1.1	3.3
S	.5	2.5	.8	.1								3.9	5.3
SSW	1.3	2.0	2.7	.9	.8	.1						7.7	8.3
SW	1.4	4.5	8.3	7.5	3.2	.5	.3					25.8	10.8
WSW	.9	2.5	6.1	8.2	2.8	1.9	.4	.2				23.0	13.0
W	.5	1.7	1.4	1.7	1.0	.1						6.5	10.2
WNW	.2	.9	.8	.6								2.5	8.0
NW	.5	.4	1.1	.6								2.7	7.6
NNW	.4	.3	1.2	1.0	.1							3.0	9.1
VARBL													
CALM												12.3	
	9.8	20.4	24.4	21.6	7.8	2.7	.8	.2				100.0	8.6

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

SURFACE WINDS

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	.9	1.4	.3								3.5	6.3
NNE	1.0	1.0	.9	.3	.1							3.2	6.2
NE	.2	.8	.9									1.8	6.2
ENE	.4	.2		.1								.8	4.1
E		.1										.1	4.0
ESE	.2											.2	1.5
SE	.1	.1										.2	3.0
SSE	.4	.3										.8	3.1
S	.8	1.1	.3	.1	.1							2.4	5.7
SSW	.9	2.9	1.9	2.0	.6	.2						8.6	9.1
SW	1.7	5.7	8.2	8.8	3.7	1.6	.2					29.9	11.1
WSW	1.5	3.1	5.3	4.9	2.8	1.5	.5	.1				19.8	12.2
W	.5	2.3	2.3	2.4	1.0	.2						8.6	9.8
WNW	.2	1.0	1.3	.3								2.8	7.3
NW	.4	.9	.8	.2	.1							2.4	7.5
NNW	.3	.6	1.4	.8	.1	.1						3.3	9.1
VARBL													
CALM												11.6	
	9.7	20.9	24.5	20.3	8.5	3.7	.8	.1				100.0	8.8

TOTAL NUMBER OF OBSERVATIONS   930

USAFETAC FORM JUL 64 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER   ALL

CLASS   HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	1.1	.4	.1							3.7	6.6
NNE	1.0	1.2	.9	.4	.0							3.5	6.2
NE	.6	1.2	.7	.1								2.5	5.4
ENE	.4	.5	.1	.0								1.0	>.0
E	.3	.2	.0									.5	3.3
ESE	.2	.0	.0									.2	2.8
SE	.1	.1										.2	3.5
SSE	.3	.2	.0	.0								.6	3.5
S	.7	1.1	.3	.0	.0							2.1	4.7
SSW	.9	1.9	1.7	1.7	.8	.3	.0					7.2	9.6
SW	1.3	4.5	7.0	8.8	4.5	1.6	.4	.1				28.0	12.1
WSW	.9	3.1	5.2	7.7	4.0	2.1	.3	.1				23.3	13.1
W	.8	1.8	2.1	1.9	1.0	.2	.0	.0				7.8	10.1
WNW	.3	1.0	.8	.4	.0							2.7	7.1
NW	.5	.8	.8	.5	.1							2.8	7.6
NNW	.3	.7	1.0	.5	.1	.0						2.7	8.6
VARBL													
CALM												11.0	
	9.5	19.5	21.9	22.5	10.6	4.2	.7	.1				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS   7440

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-77	ALL
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

ALL — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.9	1.3	1.2	.8	.1	.0	.0					4.2	7.4
NNE	1.0	1.6	1.2	.7	.1	.0	.0					4.6	7.0
NE	.9	1.5	1.1	.5	.1	.0						4.0	6.6
ENE	.6	.9	.5	.2	.0	.0						2.2	5.7
E	.6	.6	.3	.1	.0	.0						1.6	5.1
ESE	.3	.3	.2	.1	.0							.9	5.6
SE	.4	.4	.2	.1	.0	.0						1.1	5.5
SSE	.5	.5	.2	.0	.0							1.4	4.7
S	1.2	1.8	.6	.2	.0							4.0	5.2
SSW	1.2	2.5	1.5	1.0	.3	.1	.0					6.7	7.4
SW	1.5	4.0	5.3	4.5	1.5	.5	.1	.0				17.6	9.9
WSW	1.0	3.0	4.3	5.5	2.3	1.0	.2	.0				17.3	11.7
W	1.1	2.7	3.1	2.8	1.1	.4	.1	.0				11.3	10.0
WNW	.6	1.1	1.1	.6	.1	.0	.0	.0				3.6	7.8
NW	.6	.9	.8	.4	.1	.0	.0					2.8	7.2
NNW	.5	.8	.8	.5	.1	.0	.0					2.8	7.5
VARBL													
CALM												14.0	
	12.0	23.9	22.6	17.9	6.0	2.2	.3	.0				100.0	7.6

TOTAL NUMBER OF OBSERVATIONS   87665

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

24112	MALMSTROM AFB MT/GREAT FALLS	67-77	ALL
STATION	STATION NAME	YEARS	MONTH

INSTRUMENT — ALL
CLASS — HOURS (L.S.T.)

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,
CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	4.1	5.5	4.3	.9	.3						16.7	9.2
NNE	2.1	5.5	5.3	4.2	1.1	.1	.0					18.3	8.5
NE	1.4	3.6	3.2	2.3	.4	.0						10.8	7.9
ENE	.7	1.3	.8	.3	.1	.1						3.3	6.5
E	.5	.7	.1	.0								1.3	4.3
ESE	.2	.4	.1									.8	4.5
SE	.2	.1	.1									.4	4.3
SSE	.2	.1	.0									.3	3.8
S	.2	.1	.0									.4	3.3
SSW	.5	.2	.0	.1	.0							.8	4.3
SW	.9	.7	.5	.2	.1	.1						2.4	6.7
WSW	.5	.9	.8	.8	.2	.0	.0					3.2	8.8
W	.8	1.5	1.6	1.0	.0	.0						4.9	7.5
WNW	.6	1.9	1.8	.7	.2	.0						5.2	7.8
NW	.9	2.2	2.4	1.4	.2	.0						7.2	8.0
NNW	1.3	2.7	3.5	2.7	.4	.1						10.7	8.6
VARBL													
CALM	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	13.4	
	12.8	25.8	25.7	17.9	3.7	.8	.0					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 5286

PART D   CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

D - 1

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≤ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800 ≥ 1500					91.0											92.6
≥ 1200 ≥ 1000																
≥ 900 ≥ 800																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4						98.1
≥ 300 ≥ 200																
≥ 100 ≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0. For instance, from the table: Ceiling ≥ 1500 feet = 92.6%. Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table: Visibility ≥ 3 miles = 95.4%. Visibility ≥ 2 miles = 96.9%. Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

674-28963

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

      Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

      The value 91.0 read from the table at the intersection of $\geq$ 1500 feet with $\geq$ 3 miles, subtracted from 97.4 read from the table at the intersection of $\geq$ 500 feet with $\geq$ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling $\geq$ 500 feet with visibility $\geq$ 1 mile, but < 3 miles; or ceiling $\geq$ 500 feet, but < 1500 feet with visibility $\geq$ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

D - 3

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	29.5	42.5	42.8	42.9	43.4	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.1
	34.5	52.7	53.1	53.2	53.9	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6
≥ 18000 ≥ 16000	34.5	52.7	53.1	53.2	53.9	54.2	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6
	34.5	52.7	53.1	53.2	53.9	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6
≥ 14000 ≥ 12000	35.2	53.5	54.0	54.1	54.7	55.1	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.5
	38.4	58.2	58.7	58.8	59.5	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.2
≥ 10000 ≥ 9000	46.5	67.5	68.2	68.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9
	46.9	68.4	69.0	69.1	69.9	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.8
≥ 8000 ≥ 7000	48.9	71.2	71.9	72.0	72.8	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7
	49.7	72.8	73.7	73.8	74.5	74.8	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4
≥ 6000 ≥ 5000	50.3	73.9	74.7	74.8	75.6	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.5
	51.8	75.6	77.0	77.1	77.8	78.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7
≥ 4500 ≥ 4000	52.0	76.2	77.8	78.0	78.7	79.0	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6
	53.4	79.2	81.0	81.1	81.9	82.3	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.3
≥ 3500 ≥ 3000	53.8	80.0	81.7	81.8	83.1	83.4	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5
	54.4	81.4	83.7	83.9	85.5	85.9	86.9	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.5
≥ 2500 ≥ 2000	54.5	82.3	84.7	85.1	87.0	87.4	88.5	88.7	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.1
	54.7	83.2	86.0	86.5	88.6	89.0	90.1	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥ 1800 ≥ 1500	54.7	83.2	86.2	86.7	88.8	89.2	90.3	91.0	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.5
	55.2	83.9	87.0	87.4	89.6	90.0	91.2	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.8
≥ 1200 ≥ 1000	55.5	84.7	88.0	88.4	90.6	91.1	92.3	93.8	93.9	94.4	94.4	94.4	94.4	94.4	94.4	94.5
	55.6	84.8	88.2	88.6	91.0	91.4	92.6	94.3	94.7	95.5	95.5	95.5	95.5	95.5	95.5	95.6
≥ 900 ≥ 800	55.6	84.8	88.2	88.6	91.2	91.6	92.9	94.9	95.5	96.2	96.3	96.3	96.3	96.3	96.3	96.5
	55.7	84.9	88.3	88.7	91.5	91.9	93.3	95.4	95.9	96.9	97.1	97.1	97.1	97.1	97.1	97.2
≥ 700 ≥ 600	55.8	85.2	88.5	88.9	91.7	92.2	93.7	95.9	96.5	97.5	97.8	97.8	97.8	97.8	97.8	98.0
	55.8	85.2	88.5	88.9	91.9	92.4	93.9	96.1	96.7	98.2	98.5	98.5	98.5	98.5	98.5	98.6
≥ 500 ≥ 400	55.8	85.3	88.6	89.0	92.0	92.5	94.0	96.3	97.1	98.7	99.0	99.0	99.0	99.0	99.0	99.1
	55.8	85.3	88.6	89.0	92.0	92.5	94.0	96.3	97.2	98.9	99.2	99.5	99.5	99.5	99.5	99.6
≥ 300 ≥ 200	55.8	85.3	88.6	89.0	92.0	92.5	94.0	96.3	97.2	98.9	99.2	99.6	99.7	99.7	99.7	99.8
	55.8	85.3	88.6	89.0	92.0	92.5	94.1	96.5	97.3	99.0	99.4	99.7	99.8	99.8	99.8	99.9
≥ 100 ≥ 0	55.8	85.3	88.6	89.0	92.0	92.5	94.1	96.5	97.3	99.0	99.4	99.7	99.8	99.8	99.8	99.9
	55.8	85.3	88.6	89.0	92.0	92.5	94.1	96.5	97.3	99.0	99.4	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   YEARS   JAN MONTH

STATION   STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	28.6	41.8	42.3	42.4	42.8	43.2	43.3	43.3	43.3	43.3	43.4	43.4	43.4	43.4	43.4	43.4
	35.8	54.3	54.7	54.8	55.4	55.8	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
≥ 18000 ≥ 16000	35.8	54.3	54.7	54.8	55.4	55.8	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
	35.8	54.3	54.7	54.8	55.4	55.8	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000 ≥ 12000	36.2	54.7	55.2	55.3	55.8	56.2	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6
	38.7	57.7	58.2	58.3	58.9	59.5	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8
≥ 10000 ≥ 9000	45.8	65.9	66.7	66.8	67.4	68.0	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6
	46.2	67.1	67.8	68.0	68.6	69.1	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8
≥ 8000 ≥ 7000	47.8	69.5	70.2	70.3	71.0	71.5	72.0	72.0	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2
	48.8	70.5	71.3	71.4	72.0	72.6	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2
≥ 6000 ≥ 5000	49.2	71.7	72.5	72.6	73.2	73.8	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4
	51.1	74.2	74.9	75.2	75.9	76.5	77.0	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4500 ≥ 4000	51.6	75.3	76.1	76.3	77.1	77.6	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
	52.5	77.3	78.2	78.6	79.7	80.2	81.1	81.2	81.2	81.2	81.5	81.5	81.5	81.5	81.5	81.5
≥ 3500 ≥ 3000	53.0	79.1	80.1	80.5	81.6	82.2	83.0	83.1	83.1	83.1	83.4	83.4	83.4	83.4	83.4	83.4
	53.5	80.5	81.8	82.4	83.4	84.1	85.1	85.4	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500 ≥ 2000	53.5	80.8	82.0	82.6	83.9	84.6	85.7	86.0	86.0	86.0	86.5	86.5	86.5	86.5	86.5	86.5
	54.5	82.0	83.9	84.4	86.2	87.1	88.5	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.5	89.5
≥ 1800 ≥ 1500	54.5	82.3	84.3	84.8	86.7	87.7	89.1	89.6	89.6	89.6	90.0	90.0	90.0	90.0	90.1	90.1
	55.1	82.9	85.4	85.9	88.0	89.0	90.6	91.4	91.4	91.4	91.8	91.8	91.8	91.8	91.9	91.9
≥ 1200 ≥ 1000	55.4	83.4	85.9	86.6	88.8	89.9	91.5	93.1	93.1	93.1	93.5	93.5	93.5	93.5	93.7	93.7
	55.5	84.0	86.7	87.3	89.7	90.8	92.5	94.3	94.3	94.4	94.8	94.8	94.9	94.9	95.1	95.1
≥ 900 ≥ 800	55.7	84.2	86.9	87.5	89.9	91.0	92.7	94.6	94.6	94.7	95.2	95.2	95.3	95.3	95.4	95.4
	55.7	84.2	86.9	87.5	89.9	91.0	92.7	95.1	95.3	95.5	96.0	96.0	96.1	96.1	96.3	96.3
≥ 700 ≥ 600	55.9	84.4	87.1	87.7	90.2	91.3	93.0	95.5	95.7	95.9	96.5	96.5	96.7	96.7	97.0	97.0
	56.1	84.8	87.5	88.2	90.6	91.7	93.4	96.1	96.3	97.1	97.7	97.7	98.0	98.0	98.3	98.3
≥ 500 ≥ 400	56.3	85.2	87.8	88.5	91.0	92.0	93.8	96.6	96.9	97.7	98.4	98.4	98.6	98.6	98.9	98.9
	56.3	85.2	87.8	88.5	91.0	92.0	93.8	96.7	97.0	97.8	98.5	98.5	98.7	98.7	99.1	99.1
≥ 300 ≥ 200	56.3	85.2	87.8	88.5	91.1	92.2	93.9	96.8	97.2	98.1	98.9	98.9	99.1	99.1	99.6	99.8
	56.3	85.2	87.8	88.5	91.1	92.2	93.9	96.8	97.2	98.1	98.9	98.9	99.1	99.1	99.6	99.8
≥ 100 ≥ 0	56.3	85.2	87.8	88.5	91.2	92.3	94.0	96.9	97.3	98.2	99.0	99.0	99.2	99.2	99.7	99.9
	56.3	85.2	87.8	88.5	91.2	92.3	94.0	96.9	97.3	98.2	99.0	99.0	99.2	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JAN

STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	32.4	40.0	40.3	40.3	40.5	40.8	40.9	41.0	41.1	41.4	41.5	41.5	41.6	41.6	41.9	41.9
	40.9	53.1	53.7	53.8	54.0	54.3	54.4	54.5	54.6	54.9	55.1	55.1	55.2	55.2	55.5	55.5
≥18000 ≥16000	40.9	53.1	53.7	53.8	54.0	54.3	54.4	54.5	54.6	54.9	55.1	55.1	55.2	55.2	55.5	55.5
	40.9	53.1	53.7	53.8	54.0	54.3	54.4	54.5	54.6	54.9	55.1	55.1	55.2	55.2	55.5	55.5
≥14000 ≥12000	41.0	53.2	53.8	53.9	54.1	54.4	54.5	54.6	54.7	55.1	55.2	55.2	55.3	55.3	55.6	55.6
	43.8	56.3	56.9	57.0	57.2	57.5	57.6	57.7	57.8	58.2	58.3	58.3	58.4	58.4	58.7	58.7
≥10000 ≥9000	48.5	61.8	62.4	62.5	62.9	63.2	63.4	63.5	63.7	64.0	64.1	64.1	64.2	64.2	64.5	64.5
	49.2	63.3	63.9	64.0	64.5	64.8	65.2	65.3	65.4	65.7	65.8	65.8	65.9	65.9	66.2	66.2
≥8000 ≥7000	51.5	65.9	66.5	66.6	67.2	67.5	67.8	68.0	68.1	68.4	68.5	68.5	68.6	68.6	68.9	68.9
	52.9	67.6	68.2	68.3	68.9	69.2	69.6	69.7	69.8	70.1	70.2	70.2	70.3	70.3	70.6	70.6
≥6000 ≥5000	54.5	70.2	70.8	70.9	71.5	71.8	72.2	72.3	72.4	72.7	72.8	72.8	72.9	72.9	73.2	73.2
	57.2	73.1	73.7	73.8	74.4	74.7	75.1	75.2	75.3	75.6	75.7	75.7	75.8	75.8	76.1	76.1
≥4500 ≥4000	58.3	74.8	75.4	75.6	76.2	76.6	76.9	77.0	77.1	77.4	77.5	77.5	77.6	77.6	78.0	78.0
	60.2	78.0	78.8	79.1	79.8	80.1	80.6	81.0	81.1	81.5	81.7	81.7	81.8	81.8	82.2	82.2
≥3500 ≥3000	60.8	79.2	80.3	80.6	81.6	81.9	82.7	83.0	83.1	83.5	83.8	83.8	83.9	83.9	84.2	84.2
	61.0	80.4	81.7	82.2	83.5	84.0	84.7	85.1	85.2	85.6	85.8	85.8	85.9	85.9	86.2	86.2
≥2500 ≥2000	61.4	81.0	82.5	82.9	84.5	84.9	85.8	86.1	86.2	86.7	86.9	86.9	87.0	87.0	87.3	87.3
	61.8	81.8	83.3	83.9	85.8	86.3	87.7	88.3	88.5	88.9	89.1	89.1	89.2	89.2	89.6	89.6
≥1800 ≥1500	62.0	82.2	83.8	84.3	86.2	86.8	88.2	88.7	88.9	89.4	89.6	89.6	89.7	89.7	90.0	90.0
	62.2	82.6	84.3	84.8	87.3	87.8	89.5	90.1	90.3	90.8	91.0	91.0	91.1	91.1	91.4	91.4
≥1200 ≥1000	62.2	82.6	84.4	84.9	87.5	88.3	89.9	90.6	90.9	91.4	91.6	91.6	91.7	91.7	92.2	92.2
	62.3	82.9	84.8	85.5	88.5	89.4	91.1	91.9	92.2	92.9	93.1	93.1	93.2	93.2	93.7	93.7
≥900 ≥800	62.3	83.0	84.9	85.6	88.6	89.5	91.2	92.0	92.3	93.1	93.3	93.3	93.4	93.4	93.9	93.9
	62.4	83.2	85.2	85.8	88.8	89.7	91.4	92.5	92.8	93.7	94.0	94.2	94.3	94.3	94.7	94.7
≥700 ≥600	62.8	83.8	85.7	86.5	89.5	90.3	92.2	93.3	93.7	94.5	94.9	95.2	95.3	95.3	95.7	95.7
	62.8	83.8	85.7	86.5	89.5	90.3	92.2	93.9	94.2	95.4	95.9	96.1	96.3	96.3	96.8	96.8
≥500 ≥400	62.9	83.9	85.8	86.6	89.6	90.5	92.4	94.1	94.4	95.6	96.3	96.6	96.9	97.0	97.5	97.5
	63.2	84.2	86.1	86.9	90.0	91.1	92.9	94.7	95.2	96.5	97.3	97.5	98.0	98.1	98.6	98.6
≥300 ≥200	63.2	84.4	86.3	87.1	90.2	91.4	93.2	95.1	95.5	96.9	97.7	98.0	98.5	98.6	99.1	99.1
	63.2	84.4	86.3	87.1	90.2	91.5	93.3	95.2	95.6	97.1	98.0	98.2	98.9	99.0	99.6	99.6
≥100 ≥0	63.2	84.4	86.3	87.1	90.2	91.5	93.3	95.2	95.6	97.2	98.2	98.4	99.2	99.4	100.0	100.0
	63.2	84.4	86.3	87.1	90.2	91.5	93.3	95.2	95.6	97.2	98.2	98.4	99.2	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS_____930

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS (STATION NAME)   68-77 YEARS   JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS (LST)

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	34.4	35.2	35.8	35.8	36.2	36.5	36.6	37.1	37.1	37.3	37.4	37.4	37.5	37.5	37.7	37.7
	43.3	44.3	45.2	45.2	45.7	45.9	46.0	46.6	46.6	46.8	46.9	46.9	47.0	47.0	47.2	47.2
≥18000 / ≥16000	43.7	44.6	45.5	45.5	46.0	46.2	46.3	46.9	46.9	47.1	47.2	47.2	47.3	47.3	47.5	47.5
	43.8	44.7	45.6	45.6	46.1	46.3	46.5	47.0	47.0	47.2	47.3	47.3	47.4	47.4	47.6	47.6
≥14000 / ≥12000	44.8	45.8	46.7	46.7	47.2	47.4	47.5	48.1	48.1	48.3	48.4	48.4	48.5	48.5	48.7	48.7
	50.8	51.7	52.6	52.6	53.1	53.3	53.4	54.0	54.0	54.2	54.3	54.3	54.4	54.4	54.6	54.6
≥10000 / ≥9000	60.3	61.9	62.8	62.8	63.3	63.5	63.7	64.2	64.2	64.4	64.5	64.5	64.6	64.6	64.8	64.8
	61.8	63.5	64.4	64.4	64.9	65.2	65.3	65.8	65.8	66.0	66.1	66.1	66.2	66.2	66.5	66.5
≥8000 / ≥7000	64.5	66.3	67.4	67.4	68.1	68.3	68.5	69.0	69.0	69.2	69.4	69.4	69.5	69.5	69.7	69.7
	67.8	69.8	70.9	70.9	71.5	71.7	71.9	72.5	72.5	72.7	72.8	72.8	72.9	72.9	73.1	73.1
≥6000 / ≥5000	71.1	73.2	74.3	74.3	75.1	75.3	75.5	76.0	76.0	76.2	76.3	76.3	76.5	76.5	76.7	76.7
	72.5	75.6	76.7	76.7	77.6	77.8	78.1	78.6	78.6	78.8	78.9	78.9	79.0	79.0	79.2	79.2
≥4500 / ≥4000	72.6	76.2	77.4	77.4	78.5	78.7	78.9	79.5	79.5	79.7	79.8	79.8	79.9	79.9	80.1	80.1
	74.5	78.8	80.1	80.1	81.4	81.7	82.4	82.9	83.0	83.2	83.7	83.7	83.8	83.8	84.0	84.0
≥3500 / ≥3000	74.8	79.5	80.9	81.0	82.3	82.6	83.3	83.9	84.0	84.2	84.6	84.6	84.7	84.7	84.9	84.9
	75.2	80.1	81.6	81.8	83.9	84.2	85.1	85.6	85.8	86.1	86.6	86.6	86.7	86.7	87.0	87.0
≥2500 / ≥2000	75.5	80.5	82.0	82.3	84.6	84.9	86.1	86.8	87.0	87.3	87.7	87.7	87.8	87.8	88.2	88.2
	75.8	81.2	82.7	82.9	85.4	85.7	87.0	87.6	88.0	88.3	88.8	88.8	88.9	88.9	89.4	89.4
≥1800 / ≥1500	75.8	81.2	82.7	82.9	85.4	85.7	87.0	87.6	88.1	88.7	89.2	89.2	89.4	89.4	89.8	89.9
	75.9	81.5	83.0	83.2	85.8	86.1	87.7	88.5	88.9	89.7	90.2	90.3	90.4	90.4	90.9	91.0
≥1200 / ≥1000	75.9	81.6	83.2	83.5	86.3	86.7	88.4	89.1	89.8	90.8	91.3	91.4	91.5	91.5	91.9	92.0
	75.9	81.6	83.2	83.5	86.6	87.0	89.1	90.0	91.1	92.5	93.2	93.3	93.4	93.4	93.9	94.0
≥900 / ≥800	76.1	81.8	83.4	83.8	86.9	87.3	89.5	90.4	91.5	93.0	93.8	93.9	94.0	94.0	94.4	94.5
	76.2	81.9	82.5	83.9	87.0	87.4	89.7	90.9	91.9	93.9	94.9	95.1	95.5	95.5	95.9	96.0
≥700 / ≥600	76.2	82.0	83.7	84.0	87.1	87.5	89.8	91.2	92.3	94.3	95.8	95.9	96.3	96.3	96.8	96.9
	76.2	82.2	83.8	84.1	87.2	87.6	89.9	91.3	92.4	94.4	95.9	96.1	96.7	96.7	97.1	97.2
≥500 / ≥400	76.2	82.2	83.8	84.1	87.2	87.6	90.0	91.6	92.7	94.8	96.5	96.8	97.6	97.6	98.2	98.3
	76.5	82.4	84.0	84.3	87.5	88.0	90.5	92.2	93.4	95.7	97.4	97.7	98.7	98.8	99.4	99.6
≥300 / ≥200	76.6	82.5	84.1	84.4	87.6	88.1	90.6	92.3	93.5	95.8	97.6	98.0	98.9	99.0	99.6	99.8
	76.6	82.5	84.1	84.4	87.6	88.1	90.6	92.3	93.5	95.8	97.6	98.0	98.9	99.2	99.8	100.0
≥100 / ≥0	76.6	82.5	84.1	84.4	87.6	88.1	90.6	92.3	93.5	95.8	97.6	98.0	98.9	99.2	99.8	100.0
	76.6	82.5	84.1	84.4	87.6	88.1	90.6	92.3	93.5	95.8	97.6	98.0	98.9	99.2	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS a8-77 JAN
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	35.2	36.8	36.9	37.0	37.4	37.4	37.4	37.5	37.5	37.7	37.7	37.7	37.7	37.7	37.7	37.7
	46.2	48.8	49.1	49.2	49.9	49.9	50.0	50.1	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 18000 ≥ 16000	46.7	49.2	49.6	49.7	50.3	50.3	50.4	50.5	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9
	46.8	49.4	49.7	49.8	50.4	50.4	50.5	50.6	50.6	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 14000 ≥ 12000	48.1	50.6	51.0	51.1	51.7	51.7	51.8	51.9	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3
	54.9	57.7	58.1	58.2	58.8	58.8	58.9	59.0	59.0	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000 ≥ 9000	65.8	68.7	69.1	69.2	70.0	70.0	70.1	70.2	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5
	66.8	69.8	70.2	70.3	71.1	71.1	71.2	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000 ≥ 7000	71.1	74.4	74.8	74.9	75.8	75.8	75.9	76.0	76.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5
	73.0	76.5	76.9	77.0	77.8	77.8	78.0	78.2	78.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 6000 ≥ 5000	74.4	78.1	78.6	78.7	79.6	79.6	79.7	79.9	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3
	75.3	79.7	80.3	80.4	81.5	81.5	81.6	81.8	81.8	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4500 ≥ 4000	75.7	80.3	81.3	81.4	82.6	82.7	82.8	83.0	83.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4
	76.9	82.0	83.3	83.5	85.2	85.3	85.6	86.0	86.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500 ≥ 3000	77.4	82.6	84.0	84.3	86.1	86.6	87.0	87.4	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8
	78.1	83.3	84.7	85.2	87.5	88.0	88.5	89.1	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500 ≥ 2000	78.1	83.7	85.3	85.7	88.2	88.9	89.5	90.1	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	78.4	84.4	86.0	86.5	89.1	90.0	90.8	91.6	91.8	92.4	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1800 ≥ 1500	78.4	84.4	86.0	86.5	89.1	90.0	90.8	91.6	91.8	92.4	92.5	92.5	92.5	92.5	92.5	92.5
	78.4	84.6	86.2	86.8	89.6	90.8	91.6	92.8	93.2	93.9	94.0	94.2	94.2	94.2	94.2	94.2
≥ 1200 ≥ 1000	78.5	84.9	86.6	87.1	90.0	91.3	92.4	93.9	94.3	94.9	95.2	95.4	95.4	95.4	95.4	95.4
	78.5	84.9	86.6	87.1	90.0	91.3	92.7	94.4	95.2	96.3	96.7	96.9	96.9	96.9	96.9	96.9
≥ 900 ≥ 800	78.5	84.9	86.6	87.2	90.1	91.4	92.8	94.6	95.4	96.7	97.0	97.3	97.3	97.4	97.4	97.4
	78.5	84.9	86.6	87.2	90.1	91.4	92.9	94.7	95.5	97.1	97.4	97.7	97.7	97.8	97.8	97.8
≥ 700 ≥ 600	78.5	84.9	86.7	87.3	90.3	91.6	93.1	94.9	95.7	97.4	97.8	98.3	98.3	98.4	98.4	98.4
	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.8	97.5	98.0	98.6	98.7	98.8	98.8	98.8
≥ 500 ≥ 400	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.8	97.6	98.1	98.9	99.0	99.1	99.4	99.4
	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.8	97.6	98.2	99.0	99.1	99.2	99.7	99.8
≥ 300 ≥ 200	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.9	97.7	98.3	99.2	99.4	99.5	99.9	100.0
	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.9	97.7	98.3	99.2	99.4	99.5	99.9	100.0
≥ 100 ≥ 0	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.9	97.7	98.3	99.2	99.4	99.5	99.9	100.0
	78.5	84.9	86.7	87.3	90.3	91.6	93.1	95.1	95.9	97.7	98.3	99.2	99.4	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 STATION MALMSTROM AFB MT/GREAT FALLS (STATION NAME) 68-77 YEARS JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 HOURS (LST)

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	36.2	37.8	38.3	38.3	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
	46.7	49.2	49.9	49.9	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 18000 ≥ 16000	46.9	49.6	50.2	50.2	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
	47.0	49.7	50.3	50.3	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 14000 ≥ 12000	49.9	52.6	53.2	53.2	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
	57.5	60.3	61.0	61.0	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 10000 ≥ 9000	67.6	70.8	71.6	71.6	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
	69.1	72.7	73.7	73.7	74.0	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000 ≥ 7000	71.5	75.4	76.6	76.6	76.9	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
	73.5	77.6	78.8	78.8	79.1	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79'.4	79.4	79.4	79.4
≥ 6000 ≥ 5000	75.7	79.8	81.0	81.0	81.3	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
	77.5	81.8	83.1	83.1	83.8	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4500 ≥ 4000	77.7	82.3	83.7	83.7	84.3	84.6	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
	78.6	84.2	85.6	85.6	86.2	86.9	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500 ≥ 3000	79.1	85.3	86.7	86.7	87.4	88.3	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
	79.1	85.8	87.3	87.3	88.4	89.6	90.0	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2500 ≥ 2000	79.4	86.1	87.6	87.6	88.7	89.9	90.4	90.9	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1
	79.8	86.8	88.3	38.4	90.1	91.4	92.0	92.6	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9
≥ 1800 ≥ 1500	79.8	86.6	88.3	88.4	90.1	91.4	92.0	92.6	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9
	80.1	87.8	89.4	89.6	91.4	92.8	93.4	94.3	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3
≥ 1200 ≥ 1000	80.3	88.5	90.1	90.4	92.4	93.8	94.4	95.5	96.2	96.3	96.5	96.7	96.7	96.7	96.7	96.7
	80.5	88.5	90.1	90.5	92.5	93.9	94.6	95.7	96.5	97.1	97.2	97.4	97.4	97.4	97.4	97.4
≥ 900 ≥ 800	80.4	88.6	90.2	90.6	92.6	94.0	94.7	95.8	96.6	97.2	97.3	97.5	97.5	97.5	97.5	97.5
	80.4	88.6	90.2	90.6	92.6	94.0	94.7	95.8	96.7	97.4	97.6	97.8	97.8	97.8	97.8	97.8
≥ 700 ≥ 600	80.5	88.7	90.3	90.8	92.7	94.2	95.1	96.2	97.1	97.8	98.1	98.3	98.3	98.3	98.3	98.3
	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.5	97.3	98.1	98.4	98.9	98.9	99.0	99.0	99.0
≥ 500 ≥ 400	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.8	97.6	98.6	98.9	99.5	99.5	99.6	99.6	99.6
	80.5	88.8	90.4	90.9	92.8	95.3	96.8	97.6	98.6	98.9	99.5	99.5	99.6	99.6	99.6	99.6
≥ 300 ≥ 200	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.8	97.6	98.6	98.9	99.5	99.7	99.8	99.8	99.8
	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.8	97.6	98.6	98.9	99.5	99.7	99.8	100.0	100.0
≥ 100 ≥ 0	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.8	97.6	98.6	98.9	99.5	99.7	99.8	100.0	100.0
	80.5	88.8	90.4	90.9	92.8	94.3	95.3	96.8	97.6	98.6	98.9	99.5	99.7	99.8	100.0	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS _____ 930

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	29.1	40.5	41.1	41.1	41.1	41.2	41.2	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4
	35.5	52.0	52.7	52.8	52.6	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.1
≥18000 ≥16000	35.5	52.0	52.7	52.8	52.8	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.1
	35.5	52.0	52.7	52.8	52.8	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.1	53.1
≥14000 ≥12000	36.2	52.9	53.5	53.7	53.7	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	54.0	54.0
	41.1	59.0	59.7	59.8	59.8	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1
≥10000 ≥9000	48.6	69.9	70.6	70.8	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
	49.4	71.0	71.7	71.8	71.8	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3
≥8000 ≥7000	51.1	73.4	74.2	74.3	74.3	74.4	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7
	52.9	75.7	76.5	76.6	76.6	76.8	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2
≥6000 ≥5000	54.2	77.0	77.7	77.8	77.8	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7
	55.7	79.4	80.2	80.3	80.3	80.8	80.9	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3
≥4500 ≥4000	55.7	79.6	80.4	80.5	80.6	81.1	81.2	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6
	57.2	82.2	83.2	83.4	83.5	84.1	84.2	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7
≥3500 ≥3000	58.1	84.2	85.4	85.7	85.9	86.5	86.6	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.1	87.1
	58.8	85.4	87.0	87.3	87.6	88.4	88.8	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.7	89.7
≥2500 ≥2000	59.0	85.8	87.4	87.7	88.2	88.9	89.4	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.4	90.4
	59.6	86.8	88.7	89.0	89.6	90.4	91.0	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.2	92.2
≥1800 ≥1500	59.6	86.9	88.8	89.1	89.7	90.5	91.2	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.4	92.4
	59.7	87.5	89.6	90.0	90.6	91.5	92.3	93.3	93.5	93.7	93.7	93.7	93.8	93.8	93.9	93.9
≥1200 ≥1000	59.7	88.5	91.0	91.4	92.2	93.1	93.9	95.1	95.4	95.5	95.5	95.5	95.5	95.6	95.7	95.7
	59.7	88.9	91.1	91.5	92.8	93.8	94.8	96.2	97.0	97.2	97.2	97.2	97.3	97.3	97.4	97.4
≥900 ≥800	59.9	89.1	91.3	91.7	93.0	94.0	95.1	96.5	97.2	97.4	97.4	97.4	97.5	97.5	97.6	97.6
	60.1	89.4	91.5	91.9	93.2	94.2	95.3	97.0	97.8	98.3	98.3	98.3	98.4	98.4	98.5	98.5
≥700 ≥600	60.1	89.5	91.6	92.0	93.4	94.4	95.5	97.2	98.1	98.5	98.5	98.5	98.6	98.6	98.7	98.7
	60.1	89.5	91.6	92.0	93.4	94.4	95.7	97.4	98.3	99.0	99.0	99.0	99.1	99.1	99.2	99.2
≥500 ≥400	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	99.9
	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	99.9
≥300 ≥200	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	99.9
	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	100.0
≥100 ≥0	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	100.0
	60.1	89.5	91.7	92.2	93.5	94.5	95.8	97.5	98.5	99.2	99.5	99.5	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

CEILING VERSUS VISIBILITY

24112 STATION   MALNSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	27.4	40.4	40.8	40.8	40.8	40.9	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.4
≥ 20000	33.4	51.8	52.7	52.7	52.9	53.0	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.7
≥ 18000	33.5	51.9	52.8	52.8	53.0	53.1	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.7	53.7	53.8
≥ 16000	33.5	51.9	52.8	52.8	53.0	53.1	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.7	53.7	53.8
≥ 14000	33.7	52.0	52.9	52.9	53.1	53.2	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.9
≥ 12000	38.0	57.4	58.5	58.6	58.8	58.9	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.6	59.6	59.7
≥ 10000	45.8	67.7	68.9	69.0	69.2	69.4	69.7	69.8	69.8	69.8	69.8	69.8	69.8	70.0	70.0	70.2
≥ 9000	46.3	68.6	69.8	69.9	70.1	70.2	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.9	70.9	71.1
≥ 8000	49.0	71.8	73.0	73.1	73.4	73.5	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.2	74.2	74.4
≥ 7000	50.6	73.9	75.1	75.2	75.5	75.6	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.5
≥ 6000	52.2	75.5	76.7	76.8	77.1	77.2	77.5	77.7	77.7	77.7	77.7	77.7	77.7	78.0	78.0	78.2
≥ 5000	53.5	77.5	78.8	78.9	79.4	79.5	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.3	80.3	80.5
≥ 4500	53.8	78.0	79.2	79.4	79.8	79.9	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.8	80.8	81.0
≥ 4000	55.6	81.5	82.9	83.1	83.8	84.0	84.5	84.8	84.8	84.8	84.8	84.8	84.8	85.1	85.1	85.3
≥ 3500	55.0	82.2	83.5	83.8	84.6	84.8	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.9	85.9	86.1
≥ 3000	56.7	83.2	84.9	85.2	86.1	86.3	87.0	87.4	87.4	87.4	87.4	87.5	87.5	87.7	87.7	88.0
≥ 2500	57.1	84.1	86.0	86.2	87.4	87.8	88.5	89.0	89.0	89.0	89.1	89.1	89.1	89.4	89.4	89.6
≥ 2000	57.6	85.4	87.5	87.7	89.1	89.7	90.4	91.1	91.1	91.2	91.3	91.3	91.3	91.5	91.5	91.7
≥ 1800	58.1	85.8	88.0	88.2	89.6	90.1	90.9	91.5	91.6	91.7	91.8	91.8	91.8	92.0	92.0	92.3
≥ 1500	58.1	86.2	88.4	88.7	90.4	91.1	91.8	92.8	93.0	93.2	93.3	93.3	93.3	93.5	93.5	93.8
≥ 1200	58.5	87.5	89.7	90.0	91.8	92.6	93.3	94.3	94.7	95.1	95.2	95.2	95.2	95.4	95.4	95.6
≥ 1000	58.5	87.5	89.7	90.0	92.3	92.9	93.7	94.7	95.3	95.6	95.7	95.7	95.7	95.9	95.9	96.1
≥ 900	58.6	87.7	89.9	90.2	92.4	93.2	94.0	95.2	95.7	96.1	96.2	96.2	96.2	96.5	96.5	96.7
≥ 800	58.7	88.0	90.1	90.4	92.6	93.4	94.2	95.6	96.2	97.0	97.1	97.2	97.2	97.4	97.4	97.6
≥ 700	58.7	88.0	90.1	90.4	92.6	93.4	94.3	95.7	96.3	97.2	97.4	97.5	97.6	97.8	97.8	98.1
≥ 600	58.7	88.0	90.1	90.4	92.6	93.5	94.5	96.0	96.3	98.0	98.4	98.5	98.6	98.8	98.8	99.0
≥ 500	58.7	88.0	90.1	90.4	92.6	93.5	94.5	96.1	97.0	98.3	98.7	98.8	98.9	99.1	99.1	99.4
≥ 400	58.7	88.0	90.1	90.4	92.6	93.5	94.5	96.1	97.0	98.3	98.7	98.8	98.9	99.1	99.1	99.5
≥ 300	58.7	88.0	90.2	90.8	92.9	93.9	94.8	96.5	97.3	98.7	99.1	99.2	99.4	99.6	99.6	99.9
≥ 200	58.7	88.0	90.2	90.8	92.9	93.9	94.8	96.5	97.3	98.7	99.1	99.2	99.4	99.6	99.7	100.0
≥ 100	58.7	88.0	90.2	90.8	92.9	93.9	94.8	96.5	97.3	98.7	99.1	99.2	99.4	99.6	99.7	100.0
≥ 0	58.7	88.0	90.2	90.8	92.9	93.9	94.5	96.5	97.3	98.7	99.1	99.2	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE MAC

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL HOURS (LST)

CEILING (FEET)	\u2265 10	\u2265 6	\u2265 5	\u2265 4	\u2265 3	\u2265 2\u00bd	\u2265 2	\u2265 1\u00bd	\u2265 1\u00bc	\u2265 1	\u2265 \u00be	\u2265 \u215d	\u2265 \u00bd	\u2265 5/16	\u2265 \u00bc	\u2265 0
NO CEILING	31.6	39.4	39.8	39.8	40.1	40.3	40.4	40.5	40.5	40.6	40.7	40.7	40.7	40.7	40.8	40.8
\u2265 20000	39.5	50.8	51.4	51.5	51.8	52.0	52.2	52.3	52.3	52.4	52.5	52.5	52.5	52.5	52.6	52.6
\u2265 18000	39.7	50.9	51.5	51.6	52.0	52.2	52.3	52.4	52.5	52.6	52.6	52.6	52.6	52.7	52.7	52.8
\u2265 16000	39.7	51.0	51.6	51.6	52.0	52.2	52.4	52.5	52.5	52.6	52.7	52.7	52.7	52.7	52.8	52.8
\u2265 14000	40.6	51.9	52.5	52.6	53.0	53.2	53.3	53.4	53.5	53.6	53.6	53.6	53.6	53.7	53.7	53.8
\u2265 12000	45.4	57.3	57.9	58.0	58.4	58.6	58.8	58.9	58.9	59.0	59.1	59.1	59.1	59.1	59.2	59.2
\u2265 10000	53.6	66.8	67.5	67.6	68.1	68.3	68.5	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.9	69.0
\u2265 9000	54.5	68.1	68.8	68.9	69.4	69.6	69.8	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.2	70.3
\u2265 8000	56.9	71.0	71.8	71.9	72.4	72.6	72.9	73.0	73.1	73.2	73.2	73.2	73.2	73.3	73.3	73.4
\u2265 7000	58.7	73.1	73.9	74.0	74.5	74.7	75.0	75.1	75.2	75.3	75.3	75.3	75.3	75.4	75.3	75.5
\u2265 6000	60.2	74.9	75.8	75.9	76.4	76.7	76.9	77.1	77.1	77.2	77.3	77.3	77.3	77.3	77.4	77.5
\u2265 5000	61.8	77.1	78.1	78.2	78.8	79.1	79.4	79.6	79.6	79.7	79.8	79.8	79.8	79.8	79.9	79.9
\u2265 4500	62.2	77.8	78.9	79.0	79.7	80.0	80.3	80.5	80.5	80.7	80.7	80.7	80.7	80.8	80.8	80.9
\u2265 4000	63.6	80.4	81.6	81.8	82.7	83.1	83.6	83.9	83.9	84.1	84.2	84.2	84.2	84.2	84.3	84.4
\u2265 3500	64.1	81.5	82.8	83.1	84.1	84.5	85.1	85.4	85.5	85.6	85.7	85.7	85.7	85.8	85.8	85.9
\u2265 3000	64.6	82.5	84.1	84.4	85.8	86.3	87.0	87.4	87.5	87.7	87.8	87.8	87.9	87.9	88.0	88.0
\u2265 2500	64.8	83.0	84.7	85.0	86.6	87.2	88.0	88.5	88.5	88.8	88.9	88.9	88.9	89.0	89.1	89.1
\u2265 2000	65.3	84.0	85.8	86.2	88.0	88.7	89.7	90.3	90.5	90.7	90.9	90.9	90.9	90.9	91.1	91.1
\u2265 1800	65.4	84.1	86.0	86.4	88.2	88.9	89.9	90.6	90.7	91.0	91.2	91.2	91.2	91.3	91.4	91.4
\u2265 1500	65.6	84.6	86.7	87.1	89.1	89.9	91.0	91.9	92.2	92.6	92.7	92.8	92.8	92.8	93.0	93.0
\u2265 1200	65.7	85.3	87.4	87.8	90.0	90.8	92.0	93.2	93.5	93.9	94.1	94.2	94.2	94.3	94.4	94.5
\u2265 1000	65.8	85.4	87.5	88.0	90.4	91.3	92.6	94.0	94.5	95.2	95.4	95.5	95.6	95.6	95.7	95.8
\u2265 900	65.9	85.5	87.7	88.2	90.6	91.5	92.8	94.3	94.8	95.6	95.8	95.9	96.0	96.0	96.1	96.2
\u2265 800	66.0	85.6	87.8	88.3	90.7	91.6	93.0	94.6	95.3	96.2	96.6	96.7	96.8	96.8	97.0	97.0
\u2265 700	66.1	85.8	88.0	88.5	90.9	91.9	93.3	95.0	95.7	96.7	97.1	97.2	97.4	97.4	97.6	97.6
\u2265 600	66.1	85.9	88.0	88.5	91.0	92.0	93.5	95.3	96.0	97.2	97.7	97.9	98.1	98.2	98.3	98.4
\u2265 500	66.1	86.0	88.1	88.6	91.1	92.1	93.6	95.5	96.3	97.6	98.2	98.4	98.7	98.7	99.0	99.0
\u2265 400	66.2	86.0	88.2	88.7	91.2	92.2	93.7	95.7	96.5	97.8	98.5	98.8	99.0	99.1	99.4	99.4
\u2265 300	66.2	86.0	88.2	88.8	91.3	92.3	93.8	95.8	96.6	98.0	98.7	99.0	99.3	99.4	99.6	99.8
\u2265 200	66.2	86.1	88.2	88.8	91.3	92.3	93.9	95.8	96.6	98.0	98.7	99.0	99.4	99.5	99.8	99.9
\u2265 100	66.2	86.1	88.2	88.8	91.3	92.3	93.9	95.8	96.6	98.1	98.8	99.1	99.4	99.5	99.8	100.0
\u2265 0	66.2	86.1	88.2	88.8	91.3	92.3	93.9	95.8	96.6	98.1	98.8	99.1	99.4	99.5	99.8	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS _____ 7440

USAF ETAC   FORM JUL 64   0-14-5 (OL A)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALHSTROM AFB MT/GREAT FALLS   68-77   FEB
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (LST)

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	36.9	52.9	53.2	53.2	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
	44.1	63.7	64.1	64.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 18000 ≥ 16000	44.1	63.7	64.1	64.1	64.7	54.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
	44.1	63.	64.1	64.1	64.7	64.7	64.7	64.7	04.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000 ≥ 12000	44.5	64.2	54.5	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
	47.1	67.6	68.0	68.0	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 10000 ≥ 9000	52.3	74.6	75.0	75.0	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
	52.8	75.1	75.6	75.6	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 8000 ≥ 7000	54.9	77.4	77.9	77.9	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	55.8	79.2	79.6	79.6	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 6000 ≥ 5000	56.3	79.9	80.4	80.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
	56.8	81.2	81.7	81.7	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4500 ≥ 4000	57.0	81.5	82.1	82.1	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0
	58.0	83.0	83.6	83.6	84.5	84.5	84.5	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500 ≥ 3000	58.5	84.2	84.9	84.9	85.7	85.7	85.7	85.7	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
	59.0	84.9	85.9	85.9	87.0	87.0	87.0	87.0	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2500 ≥ 2000	59.0	85.3	86.6	86.6	87.8	87.8	87.9	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	59.6	86.2	87.8	87.9	90.1	90.1	90.3	90.3	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800 ≥ 1500	59.7	86.3	88.0	88.1	90.5	90.6	90.8	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	60.2	87.4	89.2	89.5	92.0	92.2	92.6	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1200 ≥ 1000	60.5	88.6	90.3	90.7	93.2	93.6	94.0	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	60.7	88.8	90.7	91.0	93.8	94.3	94.8	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900 ≥ 800	60.7	88.8	90.8	91.2	93.9	94.5	94.9	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
	60.7	88.8	90.8	91.2	93.9	94.5	94.9	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 700 ≥ 600	60.7	88.8	90.8	91.3	94.0	94.6	95.2	95.6	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
	60.7	88.9	90.9	91.4	94.1	94.8	95.4	96.2	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500 ≥ 400	60.7	89.0	91.0	91.5	94.2	95.1	95.6	96.6	97.1	97.4	97.5	97.5	97.5	97.5	97.5	97.5
	60.7	89.2	91.2	91.6	94.3	95.2	95.8	96.8	97.6	98.1	98.2	98.2	98.4	98.5	98.5	98.7
≥ 300 ≥ 200	60.7	89.4	91.4	91.9	94.6	95.4	96.0	97.2	98.0	98.6	98.7	98.7	98.8	98.9	98.9	99.2
	60.7	89.4	91.4	91.9	94.6	95.4	96.0	97.2	98.0	98.7	98.8	98.8	98.9	99.1	99.1	99.6
≥ 100 ≥ 0	60.7	89.4	91.4	91.9	94.6	95.4	96.0	97.2	98.0	98.7	98.8	98.8	98.5	99.1	99.1	100.0
	60.7	89.4	91.4	91.9	94.6	95.4	96.0	97.2	98.0	98.7	98.8	98.8	98.9	99.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 849

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   FEB
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	36.7	52.1	52.4	52.7	53.0	53.0	53.0	53.0	53.1	53.2	53.2	53.2	53.2	53.2	53.4	53.4
	42.8	61.1	61.5	61.7	62.2	62.2	62.2	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.5	62.5
≥ 18000 ≥ 16000	43.0	61.4	61.7	62.0	62.4	62.4	62.4	62.4	62.5	62.7	62.7	62.7	62.7	62.7	62.8	62.8
	43.0	61.4	61.7	62.0	62.4	62.4	62.4	62.4	62.5	62.7	62.7	62.7	62.7	62.7	62.8	62.8
≥ 14000 ≥ 12000	44.2	62.5	62.9	63.1	63.6	63.6	63.6	63.6	63.7	63.8	63.8	63.8	63.8	63.8	64.0	64.0
	48.2	66.8	67.1	67.4	67.8	67.8	67.8	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.2	68.2
≥ 10000 ≥ 9000	52.4	72.8	73.1	73.4	73.9	73.9	73.9	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.2	74.2
	52.8	73.9	74.2	74.4	74.9	74.9	74.9	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.3	75.3
≥ 8000 ≥ 7000	54.2	75.7	76.1	76.3	76.8	76.8	76.8	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.1	77.1
	55.2	77.3	77.6	77.9	78.3	78.3	78.3	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.7	78.7
≥ 6000 ≥ 5000	55.7	78.4	78.8	79.0	79.5	79.5	79.5	79.5	79.6	79.7	79.7	79.7	79.7	79.7	79.9	79.9
	56.9	80.2	80.6	80.8	81.3	81.3	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.5	81.6	81.6
≥ 4500 ≥ 4000	57.2	80.6	80.9	81.2	81.6	81.6	81.6	81.6	81.7	81.9	81.9	81.9	81.9	81.9	82.0	82.0
	58.4	82.2	82.7	82.9	83.5	83.5	83.5	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.2	84.2
≥ 3500 ≥ 3000	59.2	83.5	84.0	84.2	84.3	84.8	84.8	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.5	85.5
	59.8	84.3	84.9	85.2	85.7	85.7	85.7	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.5	86.5
≥ 2500 ≥ 2000	60.4	84.9	86.0	86.2	86.9	87.0	87.2	87.6	87.8	87.9	87.9	87.9	87.9	87.9	88.0	88.0
	61.2	86.2	87.4	87.6	88.8	89.0	89.4	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.3	90.3
≥ 1800 ≥ 1500	61.4	86.5	87.9	88.1	89.4	89.8	90.1	90.7	90.8	90.9	90.9	90.9	90.9	90.9	91.0	91.0
	62.2	88.2	89.8	90.0	91.4	92.0	92.5	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥ 1200 ≥ 1000	62.4	88.9	90.7	90.9	92.3	92.9	93.5	94.1	94.2	94.5	94.5	94.5	94.5	94.5	94.6	94.6
	62.7	89.6	91.6	91.9	93.3	93.9	94.7	95.3	95.4	95.8	95.8	95.8	95.8	95.8	95.9	95.9
≥ 900 ≥ 800	62.7	89.6	91.6	91.9	93.3	93.9	94.7	95.3	95.4	95.8	95.8	95.8	95.8	95.8	95.9	95.9
	62.7	89.6	91.6	91.9	93.3	93.9	94.7	95.3	95.4	95.8	95.8	95.8	95.8	95.8	95.9	95.9
≥ 700 ≥ 600	62.7	89.6	91.6	91.9	93.3	93.9	94.8	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.3	96.3
	62.7	89.6	91.8	92.0	93.6	94.2	95.2	96.1	96.2	96.6	96.6	96.6	96.6	96.6	96.7	96.7
≥ 500 ≥ 400	62.7	89.8	91.9	92.1	93.8	94.5	95.4	96.5	96.8	97.3	97.3	97.3	97.4	97.4	97.5	97.6
	62.7	89.8	91.9	92.1	93.8	94.5	95.4	96.5	96.8	97.3	97.3	97.3	97.4	97.4	97.8	97.9
≥ 300 ≥ 200	62.8	90.0	92.1	92.3	94.0	94.7	95.6	96.7	97.2	97.6	97.8	97.8	98.0	98.0	98.4	98.7
	62.9	90.1	92.2	92.5	94.1	94.8	95.8	96.8	97.3	98.0	98.2	98.2	98.5	98.5	99.1	99.6
≥ 100 ≥ 0	62.9	90.1	92.2	92.5	94.1	94.8	95.8	96.8	97.3	98.0	98.2	98.2	98.5	98.5	99.1	99.6
	62.9	90.1	92.2	92.5	94.1	94.8	95.8	96.8	97.3	98.0	98.2	98.2	98.5	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS   842

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77 YEARS   FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 HOURS (LST)

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	38.0	45.	46.1	46.1	46.3	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.6	46.6	46.9
	45.5	55.9	56.2	56.2	56.7	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.2	57.2	57.5
≥18000 ≥16000	45.5	55.9	56.2	56.2	56.7	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.2	57.2	57.5
	45.5	55.9	56.2	56.2	56.7	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.1	57.2	57.2	57.5
≥14000 ≥12000	45.8	56.3	56.5	56.5	57.0	57.1	57.2	57.4	57.4	57.4	57.4	57.4	57.5	57.6	57.6	57.8
	51.2	61.8	62.1	62.1	62.5	62.7	62.8	62.9	62.9	62.9	62.9	62.9	63.0	63.1	63.1	63.4
≥10000 ≥9000	59.6	71.6	71.8	71.8	72.4	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.9	73.0	73.0	73.3
	60.5	72.7	73.0	73.0	73.6	73.7	73.9	74.0	74.0	74.0	74.0	74.0	74.1	74.2	74.2	74.4
≥8000 ≥7000	63.0	75.1	75.6	75.6	76.2	76.3	76.4	76.6	76.6	76.6	76.6	76.6	76.7	76.8	76.8	77.0
	64.3	76.6	77.0	77.0	77.6	77.7	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.2	78.2	78.4
≥6000 ≥5000	65.1	77.6	78.1	78.1	78.7	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.2	79.3	79.3	79.5
	66.5	79.2	79.6	79.6	80.2	80.3	80.4	80.6	80.6	80.6	80.6	80.6	80.7	80.8	80.8	81.0
≥4500 ≥4000	67.0	79.6	80.1	80.1	80.7	80.8	80.9	81.0	81.0	81.0	81.0	81.0	81.2	81.3	81.3	81.5
	68.3	81.5	82.6	82.6	83.3	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.7	83.9	83.9	84.1
≥3500 ≥3000	68.9	83.3	84.3	84.3	85.0	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.5	85.6	85.6	85.9
	69.3	84.0	85.3	85.3	86.1	86.2	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.8	86.8	87.0
≥2500 ≥2000	69.6	84.5	86.1	86.2	87.4	87.6	87.9	88.0	88.0	88.0	88.0	88.0	88.1	88.2	88.2	88.5
	70.2	85.5	87.6	87.9	89.3	89.5	90.1	90.3	90.5	90.5	90.5	90.5	90.7	90.8	90.8	91.0
≥1800 ≥1500	70.2	85.7	88.0	88.2	89.8	90.1	90.8	91.0	91.3	91.3	91.3	91.3	91.5	91.6	91.6	91.9
	70.8	86.9	89.3	89.6	91.5	92.1	92.9	93.2	93.4	93.4	93.4	93.4	93.6	93.8	93.8	94.0
≥1200 ≥1000	71.1	87.9	90.2	90.6	92.6	93.2	94.1	94.3	94.7	94.7	94.7	94.7	94.9	95.1	95.1	95.3
	71.5	88.7	91.2	91.5	93.5	94.2	95.2	95.5	95.9	96.0	96.1	96.2	96.5	96.6	96.6	96.8
≥900 ≥800	71.5	88.8	91.3	91.6	93.8	94.5	95.4	95.8	96.1	96.2	96.3	96.5	96.7	96.8	96.8	97.1
	71.7	89.0	91.5	91.9	94.0	94.7	95.9	96.2	96.6	96.7	96.8	96.9	97.2	97.3	97.3	97.5
≥700 ≥600	71.7	89.0	91.5	91.9	94.0	94.7	96.0	96.3	96.7	96.8	96.9	97.1	97.3	97.4	97.4	97.6
	71.7	89.0	91.5	91.9	94.0	94.7	96.0	96.3	96.8	96.9	97.1	97.2	97.4	97.5	97.5	97.8
≥500 ≥400	71.7	89.0	91.6	91.9	94.0	94.7	96.0	96.3	96.8	96.9	97.1	97.2	97.4	97.5	97.6	98.0
	71.7	89.2	91.6	92.0	94.2	94.9	96.5	96.8	97.3	97.4	97.5	97.6	97.9	98.1	98.2	98.7
≥300 ≥200	71.7	89.2	91.6	92.0	94.5	95.2	96.7	97.2	97.6	97.9	98.0	98.1	98.4	98.6	98.7	99.3
	71.7	89.2	91.6	92.0	94.5	95.2	96.7	97.2	97.6	97.9	98.0	98.1	98.5	98.7	98.8	99.5
≥100 ≥0	71.7	89.2	91.6	92.0	94.5	95.2	96.7	97.2	97.6	97.9	98.0	98.1	98.5	98.7	98.8	99.6
	71.7	89.2	91.6	92.0	94.5	95.2	96.7	97.2	97.6	97.9	98.0	98.1	98.5	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 849

USAF ETAC   FORM JUL 64   0-14-5 (OL A)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 STATION MALMSTROM AFB MT/GREAT FALLS STATION NAME 68-77 YEARS FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	44.4	45.6	45.9	45.9	46.2	46.4	46.4	46.8	46.8	46.9	46.9	46.9	47.0	47.1	47.1	47.2
	52.9	54.4	54.8	54.9	55.4	55.6	55.6	56.2	56.2	56.3	56.3	56.3	56.4	56.5	56.5	56.7
≥ 18000 ≥ 16000	53.1	54.7	55.0	55.1	55.6	55.8	55.8	56.4	56.4	56.5	56.5	56.5	56.7	56.8	56.8	56.9
	53.1	54.7	55.0	55.1	55.6	55.8	55.8	56.4	56.4	56.5	56.5	56.5	56.7	56.8	56.8	56.9
≥ 14000 ≥ 12000	55.6	57.1	57.5	57.6	58.2	58.4	58.5	59.1	59.1	59.2	59.2	59.2	59.4	59.5	59.5	59.6
	60.7	62.3	62.8	62.9	63.5	63.7	63.8	64.4	64.4	64.5	64.5	64.5	64.7	64.8	64.8	64.9
≥ 10000 ≥ 9000	69.1	71.1	71.8	72.0	72.7	72.9	73.0	73.6	73.6	73.7	73.7	73.7	73.9	74.0	74.0	74.1
	70.2	72.2	73.0	73.1	73.9	74.1	74.2	74.8	74.8	74.9	74.9	74.9	75.0	75.1	75.1	75.3
≥ 8000 ≥ 7000	72.7	74.8	75.6	75.7	76.4	76.7	76.8	77.4	77.4	77.5	77.5	77.5	77.6	77.7	77.7	77.9
	73.9	76.2	77.0	77.4	78.1	78.3	78.4	79.0	79.0	79.2	79.2	79.2	79.3	79.4	79.4	79.5
≥ 6000 ≥ 5000	75.4	77.9	78.8	79.2	79.9	80.1	80.2	80.8	80.8	80.9	80.9	80.9	81.0	81.2	81.2	81.3
	77.6	80.2	81.2	81.5	82.2	82.4	82.6	83.2	83.2	83.4	83.4	83.4	83.5	83.6	83.6	83.7
≥ 4500 ≥ 4000	78.1	80.7	81.6	82.0	82.7	82.9	83.0	83.6	83.6	83.9	83.9	83.9	84.0	84.1	84.1	84.2
	79.5	82.9	84.0	84.3	85.4	85.6	85.7	86.3	86.3	86.6	86.6	86.6	86.7	86.8	86.8	86.9
≥ 3500 ≥ 3000	80.4	84.1	85.2	85.5	86.8	87.0	87.2	87.8	87.8	88.0	88.0	88.0	88.1	88.2	88.2	88.3
	80.4	84.7	85.7	86.1	87.5	88.2	88.3	88.9	88.9	89.2	89.2	89.2	89.4	89.5	89.5	89.6
≥ 2500 ≥ 2000	80.9	85.4	86.6	87.0	88.7	89.4	89.6	90.2	90.2	90.5	90.5	90.6	90.8	90.9	90.9	91.0
	81.5	86.1	87.4	87.9	89.6	90.3	90.8	91.5	91.8	92.0	92.1	92.2	92.5	92.6	92.6	92.7
≥ 1800 ≥ 1500	81.6	86.3	87.6	88.1	89.9	90.6	91.0	91.8	92.0	92.2	92.3	92.5	92.7	92.8	92.8	92.9
	81.6	86.3	87.9	88.3	90.5	91.5	92.0	93.1	93.3	93.5	93.6	93.8	94.0	94.1	94.1	94.2
≥ 1200 ≥ 1000	82.0	87.0	88.7	89.2	91.5	92.6	93.2	94.2	94.6	95.1	95.2	95.3	95.5	95.6	95.6	95.8
	82.1	87.2	88.8	89.3	91.6	92.7	93.3	94.5	94.8	95.4	95.6	95.8	96.0	96.1	96.1	96.2
≥ 900 ≥ 800	82.1	87.2	88.8	89.3	91.6	92.7	93.3	94.5	94.8	95.4	95.8	95.9	96.1	96.2	96.2	96.3
	82.1	87.2	88.8	89.3	91.6	92.7	93.3	94.5	94.8	95.4	95.8	95.9	96.1	96.2	96.2	96.3
≥ 700 ≥ 600	82.1	87.2	88.8	89.3	91.8	92.8	93.5	94.7	95.1	95.8	96.3	96.6	96.9	97.2	97.2	97.3
	82.2	87.3	88.9	89.4	91.9	92.9	93.8	94.9	95.3	96.1	96.7	97.1	97.6	97.9	97.9	98.0
≥ 500 ≥ 400	82.3	87.5	89.3	89.8	92.3	93.4	94.3	95.5	95.9	96.8	97.4	97.8	98.4	98.6	98.6	98.7
	82.4	87.8	89.5	90.0	92.7	93.8	94.7	95.9	96.2	97.2	97.8	98.1	98.7	98.9	98.9	99.1
≥ 300 ≥ 200	82.4	87.9	89.6	90.1	92.8	93.9	94.8	96.0	96.3	97.4	98.0	98.4	98.9	99.2	99.3	99.5
	82.4	87.9	89.6	90.1	92.8	93.9	94.8	96.0	96.3	97.4	98.0	98.4	98.9	99.2	99.3	99.9
≥ 100 ≥ 0	82.4	87.9	89.6	90.1	92.8	93.9	94.8	96.0	96.3	97.4	98.0	98.4	98.9	99.2	99.3	100.0
	82.4	87.9	89.6	90.1	92.8	93.9	94.8	96.0	96.3	97.4	98.0	98.4	98.9	99.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 849

CEILING VERSUS VISIBILITY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	45.8	47.6	48.5	48.5	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
	57.1	59.4	60.3	60.3	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥18000 ≥16000	57.5	59.7	60.7	60.7	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
	57.6	59.8	60.8	60.8	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥14000 ≥12000	59.2	61.7	62.7	62.7	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
	64.4	67.1	68.1	68.1	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥10000 ≥9000	72.7	75.5	76.4	76.4	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
	73.6	76.6	77.6	77.6	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥8000 ≥7000	76.4	79.6	80.7	80.7	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
	77.6	80.9	82.1	82.2	83.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥6000 ≥5000	78.6	82.0	83.2	83.3	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
	80.4	84.0	85.3	85.4	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥4500 ≥4000	80.9	84.5	85.7	85.9	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
	81.6	85.4	86.9	87.0	88.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	38.7
≥3500 ≥3000	81.9	85.7	87.4	87.5	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	82.6	86.5	88.3	88.6	90.0	90.3	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥2500 ≥2000	82.9	86.8	88.9	89.2	90.7	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
	83.2	87.4	89.8	90.0	92.1	92.7	92.9	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥1800 ≥1500	83.2	87.4	89.9	90.1	92.2	92.8	93.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
	83.3	87.6	90.1	90.6	92.8	93.4	93.8	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥1200 ≥1000	83.5	88.1	90.6	91.0	93.4	94.0	94.3	95.1	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5
	83.9	88.6	91.2	91.6	94.0	94.6	94.9	95.8	96.1	96.2	96.3	96.5	96.6	96.6	96.6	96.6
≥900 ≥800	83.9	88.6	91.2	91.6	94.0	94.7	95.3	96.1	96.6	96.9	97.1	97.2	97.3	97.3	97.3	97.3
	84.0	88.7	91.3	91.8	94.1	94.8	95.4	96.2	96.7	97.1	97.2	97.3	97.4	97.4	97.4	97.4
≥700 ≥600	84.3	89.0	91.8	92.2	94.7	95.4	96.0	96.9	97.4	98.0	98.1	98.2	98.4	98.4	98.4	98.4
	84.3	89.2	92.0	92.5	94.9	95.6	96.2	97.2	97.8	98.4	98.5	98.6	98.7	98.7	98.7	98.7
≥500 ≥400	84.3	89.2	92.1	92.7	95.3	96.0	96.6	97.6	98.4	99.1	99.2	99.3	99.4	99.4	99.4	99.4
	84.3	89.3	92.2	92.8	95.4	96.1	96.7	97.8	98.5	99.2	99.3	99.4	99.5	99.5	99.5	99.5
≥300 ≥200	84.3	89.3	92.2	92.8	95.5	96.2	96.8	98.0	98.7	99.4	99.5	99.6	99.8	99.8	99.8	99.8
	84.3	89.3	92.2	92.8	95.5	96.2	96.8	98.0	98.7	99.4	99.5	99.6	99.8	99.9	100.0	100.0
≥100 ≥0	84.3	89.3	92.2	92.8	95.5	96.2	96.8	98.0	98.7	99.4	99.5	99.6	99.8	99.9	100.0	100.0
	84.3	89.3	92.2	92.8	95.5	96.2	96.8	98.0	98.7	99.4	99.5	99.6	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 849

CEILING VERSUS VISIBILITY

24112 __STATION__   MALMSTROM AFB MT/GREAT FALLS __STATION NAME__   68-77 __YEARS__   FEB __MONTH__

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 __HOURS (LST)__

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	45.0	47.0	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
	56.3	58.8	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥18000 ≥16000	56.5	59.0	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
	56.9	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥14000 ≥12000	58.4	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
	63.3	65.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥10000 ≥9000	72.6	75.6	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
	73.6	76.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥8000 ≥7000	76.3	79.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
	77.9	81.3	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥6000 ≥5000	79.6	83.3	84.2	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
	82.3	86.0	87.0	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥4500 ≥4000	82.4	86.3	87.4	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
	83.6	88.3	89.5	89.6	89.9	89.9	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥3500 ≥3000	84.3	89.2	90.3	90.5	90.7	90.7	90.7	91.0	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2
	84.9	89.9	91.0	91.2	91.5	91.6	91.6	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1
≥2500 ≥2000	85.5	91.2	92.6	92.7	93.2	93.4	93.4	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9
	85.6	91.4	92.8	93.1	93.6	93.9	94.0	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7
≥1800 ≥1500	85.6	91.4	92.8	93.1	93.6	93.9	94.0	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7
	85.9	92.1	93.5	93.8	94.3	94.8	95.2	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥1200 ≥1000	86.2	92.7	94.1	94.3	94.9	95.4	95.8	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
	86.5	93.2	94.7	94.9	95.5	96.1	96.5	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4
≥900 ≥800	86.6	93.3	95.1	95.3	96.0	96.6	97.1	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0
	86.6	93.3	95.1	95.3	96.0	96.6	97.1	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0
≥700 ≥600	86.6	93.3	95.2	95.4	96.2	96.8	97.3	98.0	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4
	86.6	93.3	95.2	95.4	96.3	96.9	97.4	98.4	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥500 ≥400	86.6	93.3	95.2	95.4	96.3	97.1	97.5	98.5	98.7	99.1	99.2	99.2	99.3	99.3	99.3	99.3
	86.6	93.3	95.2	95.4	96.3	97.1	97.5	98.5	98.7	99.2	99.3	99.4	99.5	99.5	99.5	99.5
≥300 ≥200	86.6	93.4	95.3	95.5	96.6	97.3	97.8	98.7	98.9	99.4	99.5	99.8	99.9	99.9	99.9	99.9
	86.6	93.4	95.3	95.5	96.6	97.3	97.8	98.7	98.9	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥100 ≥0	86.6	93.4	95.3	95.5	96.6	97.3	97.8	98.7	98.9	99.4	99.5	99.9	100.0	100.0	100.0	100.0
	86.6	93.4	95.3	95.5	96.6	97.3	97.8	98.7	98.9	99.4	99.5	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 849

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   FEB
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS (LST)

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	41.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
	48.4	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 18000 ≥ 16000	48.5	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
	48.5	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 14000 ≥ 12000	49.2	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
	53.1	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000 ≥ 9000	61.0	77.7	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
	61.4	78.2	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 8000 ≥ 7000	62.9	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
	65.0	82.4	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 6000 ≥ 5000	65.5	83.0	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
	67.1	85.2	85.5	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 4500 ≥ 4000	67.6	85.9	86.2	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
	68.8	87.6	88.7	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3500 ≥ 3000	69.8	88.9	90.0	90.2	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	70.0	89.5	90.7	90.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 2500 ≥ 2000	70.2	90.2	91.4	91.6	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	70.8	91.0	92.3	92.7	93.9	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1800 ≥ 1500	70.8	91.3	92.6	92.9	94.1	94.2	94.2	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
	70.8	92.0	93.6	94.0	95.3	95.5	95.5	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200 ≥ 1000	70.9	92.5	94.1	94.5	95.8	96.0	96.0	96.5	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9
	71.0	93.1	94.7	95.1	96.5	96.7	96.8	97.4	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900 ≥ 800	71.3	93.3	94.9	95.3	96.7	97.1	97.2	97.8	98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4
	71.3	93.3	94.9	95.3	96.7	97.1	97.2	97.9	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700 ≥ 600	71.5	93.5	95.2	95.5	97.1	97.4	97.5	98.4	98.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1
	71.5	93.5	95.2	95.5	97.1	97.5	97.6	98.5	98.8	98.9	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500 ≥ 400	71.5	93.8	95.4	95.8	97.4	97.9	98.0	98.8	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8
	71.5	93.9	95.5	95.9	97.6	98.1	98.2	99.1	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200	71.5	93.9	95.5	95.9	97.6	98.1	98.2	99.1	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
	71.5	93.9	95.5	95.9	97.6	98.1	98.2	99.1	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	71.5	93.9	95.5	95.9	97.6	98.1	98.2	99.1	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
	71.5	93.9	95.5	95.9	97.6	98.1	98.2	99.1	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 849

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   YEARS   FEB
STATION   STATION NAME   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 HOURS LST

CEILING (FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	37.1	52.3	52.8	52.8	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.1	53.1
	45.5	64.9	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	66.0	66.0
≥18000 ≥16000	45.5	64.9	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	66.0	66.0
	45.5	64.9	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	66.0	66.0
≥14000 ≥12000	45.7	65.5	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.5	66.5
	48.6	69.1	69.6	69.6	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.2	70.2
≥10000 ≥9000	53.8	75.9	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.9	76.9
	54.3	76.8	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.9	77.9
≥8000 ≥7000	55.1	77.7	78.2	78.2	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.8	78.8
	56.4	79.4	79.9	79.9	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.4	80.4
≥6000 ≥5000	56.4	80.0	80.4	80.4	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.2	81.2
	57.1	81.3	81.9	81.9	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.6	82.6
≥4500 ≥4000	58.0	82.4	83.0	83.0	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.9	83.9
	59.0	84.3	85.2	85.2	85.6	85.7	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	86.0	86.0
≥3500 ≥3000	59.4	85.0	86.0	86.0	86.5	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.8	86.8
	60.0	86.3	87.3	87.3	88.0	88.2	88.2	88.2	88.2	88.3	88.4	88.3	88.3	88.3	88.5	88.5
≥2500 ≥2000	60.2	86.7	87.8	87.8	88.5	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.9	88.9
	60.5	87.5	88.8	88.8	89.5	90.1	90.2	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.7	90.7
≥1800 ≥1500	60.7	87.6	89.0	89.0	89.8	90.3	90.5	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.9	90.9
	61.1	88.6	90.5	90.5	91.3	92.1	92.2	92.6	92.6	92.8	92.8	92.8	92.8	92.8	92.9	92.9
≥1200 ≥1000	61.2	89.0	91.0	91.0	92.2	93.2	93.8	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.6	94.6
	61.5	89.6	91.6	91.8	92.9	94.1	95.1	95.5	95.5	95.9	96.1	96.1	96.1	96.1	96.2	96.2
≥900 ≥800	61.6	90.0	92.1	92.2	93.4	94.6	95.5	96.0	96.0	96.3	96.6	96.6	96.6	96.6	96.7	96.7
	61.7	90.5	92.6	92.8	94.2	95.4	96.5	97.1	97.1	97.4	97.6	97.6	97.6	97.6	97.8	97.8
≥700 ≥600	61.8	90.7	92.8	93.1	94.5	96.0	97.1	97.6	97.6	98.0	98.2	98.2	98.4	98.4	98.5	98.5
	61.8	90.7	92.8	93.1	94.6	96.1	97.2	98.0	98.0	98.4	98.6	98.6	98.7	98.7	98.8	98.8
≥500 ≥400	61.8	90.9	93.2	93.4	94.9	96.5	97.5	98.4	98.4	98.7	98.9	98.9	99.1	99.1	99.2	99.2
	61.8	90.9	93.2	93.4	94.9	96.5	97.5	98.4	98.5	98.8	99.1	99.1	99.2	99.2	99.3	99.3
≥300 ≥200	61.8	91.0	93.3	93.5	95.2	96.7	97.8	98.6	98.7	99.1	99.4	99.4	99.5	99.5	99.6	99.6
	61.8	91.0	93.3	93.5	95.2	96.7	97.8	98.6	98.7	99.1	99.4	99.4	99.5	99.5	99.6	99.9
≥100 ≥0	61.8	91.0	93.3	93.5	95.2	96.7	97.8	98.7	98.8	99.2	99.5	99.5	99.6	99.6	99.8	100.0
	61.8	91.0	93.3	93.5	95.2	96.7	97.8	98.7	98.8	99.2	99.5	99.5	99.6	99.6	99.8	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS _____ 849

CEILING VERSUS VISIBILITY

24112 — STATION   MALMSTROM AFB MT/GREAT FALLS — STATION NAME   68-77 YEARS   FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL HOURS EST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	40.7	49.5	49.9	49.9	50.1	50.2	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.4
≥ 20000	49.1	60.1	60.5	60.6	61.0	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.4
≥ 18000	49.2	60.3	60.7	60.7	61.1	61.2	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.5	61.5
≥ 16000	49.3	60.4	60.8	60.8	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.5	61.5	61.5	61.6
≥ 14000	50.3	61.5	61.9	62.0	62.4	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7	62.8
≥ 12000	54.6	66.1	66.5	66.6	67.0	67.0	67.1	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.4
≥ 10000	61.7	74.4	74.9	74.9	75.4	75.5	75.5	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.8	75.8
≥ 9000	62.4	75.3	75.9	75.9	76.4	76.5	76.5	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8
≥ 8000	64.4	77.5	78.2	78.2	78.7	78.8	78.8	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.1
≥ 7000	65.8	79.2	79.8	79.9	80.4	80.5	80.5	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.8
≥ 6000	66.6	80.3	80.9	81.0	81.6	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9
≥ 5000	68.1	82.1	82.8	83.0	83.5	83.6	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.9	83.9	83.9
≥ 4500	68.5	82.7	83.4	83.5	84.1	84.2	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.5	84.5
≥ 4000	69.7	84.4	85.4	85.5	86.2	86.3	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.7	86.7	86.7
≥ 3500	70.3	85.5	86.5	86.6	87.4	87.5	87.5	87.7	87.7	87.8	87.8	87.8	87.8	87.9	87.9	87.9
≥ 3000	70.7	86.3	87.4	87.5	88.4	88.6	88.7	88.9	88.9	89.0	89.0	89.0	89.0	89.1	89.1	89.1
≥ 2500	71.1	86.9	88.2	88.4	89.4	89.7	89.8	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.3	90.3
≥ 2000	71.6	87.7	89.2	89.5	90.9	91.2	91.5	91.9	91.9	92.0	92.0	92.1	92.1	92.2	92.2	92.2
≥ 1800	71.6	87.8	89.5	89.7	91.2	91.5	91.8	92.2	92.3	92.4	92.4	92.4	92.5	92.5	92.5	92.6
≥ 1500	72.0	88.6	90.5	90.8	92.4	93.0	93.3	93.8	93.9	94.1	94.1	94.1	94.2	94.2	94.2	94.3
≥ 1200	72.2	89.3	91.2	91.5	93.2	93.9	94.3	94.9	95.1	95.2	95.3	95.3	95.4	95.4	95.4	95.5
≥ 1000	72.5	89.8	91.8	92.1	93.9	94.6	95.2	95.8	96.0	96.2	96.3	96.4	96.5	96.5	96.5	96.6
≥ 900	72.5	89.9	92.0	92.3	94.1	94.8	95.4	96.1	96.3	96.5	96.7	96.7	96.8	96.8	96.9	96.9
≥ 800	72.6	90.0	92.1	92.4	94.2	94.9	95.6	96.3	96.5	96.8	96.9	97.0	97.0	97.1	97.1	97.1
≥ 700	72.7	90.2	92.2	92.6	94.4	95.2	95.9	96.7	96.9	97.2	97.4	97.5	97.6	97.6	97.6	97.7
≥ 600	72.7	90.2	92.3	92.6	94.6	95.4	96.1	97.0	97.3	97.6	97.8	97.9	98.0	98.1	98.1	98.1
≥ 500	72.7	90.3	92.4	92.8	94.8	95.6	96.4	97.3	97.6	98.1	98.3	98.4	98.5	98.6	98.6	98.7
≥ 400	72.7	90.4	92.5	92.9	94.9	95.8	96.5	97.5	97.9	98.3	98.6	98.6	98.8	98.9	99.0	99.1
≥ 300	72.7	90.5	92.6	93.0	95.1	95.9	96.7	97.7	98.1	98.6	98.9	99.0	99.2	99.2	99.3	99.5
≥ 200	72.7	90.5	92.7	93.0	95.1	96.0	96.7	97.7	98.1	98.7	98.9	99.1	99.3	99.4	99.5	99.8
≥ 100	72.7	90.5	92.7	93.0	95.1	96.0	96.7	97.7	98.1	98.7	99.0	99.1	99.3	99.4	99.5	99.9
≥ 0	72.7	90.5	92.7	93.0	95.1	96.0	96.7	97.7	98.1	98.7	99.0	99.1	99.3	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS   6792

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS (STATION NAME)   68-77 YEARS   MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS CST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	34.2	49.9	49.9	49.9	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.2	50.2
	41.3	60.5	60.5	60.5	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9
≥ 18000 ≥ 16000	41.3	60.5	60.5	60.5	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9
	41.3	60.5	60.5	60.5	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.9
≥ 14000 ≥ 12000	42.3	61.5	61.5	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8
	45.1	64.9	65.1	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4
≥ 10000 ≥ 9000	50.0	71.1	71.2	71.2	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5
	50.6	71.8	71.9	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3
≥ 8000 ≥ 7000	52.5	74.1	74.2	74.2	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5
	53.2	74.9	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4
≥ 6000 ≥ 5000	54.1	76.1	76.2	76.2	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6
	55.3	78.0	78.1	78.1	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4
≥ 4500 ≥ 4000	55.8	79.1	79.2	79.2	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
	58.4	82.4	82.6	82.6	82.7	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
≥ 3500 ≥ 3000	59.5	84.5	84.8	84.8	85.1	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.5
	60.2	85.9	86.5	86.5	86.9	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4
≥ 2500 ≥ 2000	60.4	86.8	87.5	87.7	88.3	88.6	88.8	38.8	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
	60.4	87.3	88.3	88.7	89.6	90.1	90.5	90.5	90.6	90.9	91.0	91.0	91.1	91.1	91.1	91.1
≥ 1800 ≥ 1500	60.5	87.6	88.6	89.0	90.1	90.8	91.2	91.2	91.3	91.5	91.6	91.6	91.7	91.7	91.7	91.7
	60.8	88.4	89.5	89.9	91.1	91.8	92.4	92.4	92.5	92.7	92.8	92.8	92.9	92.9	92.9	92.9
≥ 1200 ≥ 1000	60.8	88.4	89.6	90.1	91.3	92.0	92.8	92.9	93.2	93.5	93.7	93.7	93.8	93.8	93.8	93.8
	60.8	88.5	89.8	90.3	91.6	92.6	94.0	94.3	94.7	95.1	95.2	95.2	95.3	95.3	95.3	95.3
≥ 900 ≥ 800	60.8	88.5	89.8	90.3	91.6	92.6	94.2	94.5	94.9	95.4	95.5	95.5	95.6	95.6	95.6	95.6
	60.8	88.9	90.2	90.9	92.2	93.1	94.7	55.2	95.8	96.2	96.3	96.3	96.5	96.6	96.6	96.6
≥ 700 ≥ 600	60.8	88.9	90.2	90.9	92.3	93.2	94.8	95.3	95.9	96.3	96.6	96.6	96.7	96.8	96.8	96.8
	60.9	89.2	90.5	91.2	92.7	93.7	95.4	96.1	96.8	97.4	97.6	97.6	97.7	97.8	97.8	97.8
≥ 500 ≥ 400	60.9	89.4	90.6	91.3	92.8	93.9	95.6	96.5	97.1	97.7	98.0	98.0	98.1	98.2	98.2	98.2
	60.9	89.4	90.6	91.3	92.8	93.9	95.7	96.6	97.2	97.8	98.1	98.1	98.2	98.3	98.3	98.3
≥ 300 ≥ 200	60.9	89.4	90.6	91.4	92.9	94.0	95.8	96.7	97.3	98.0	98.2	98.2	98.3	98.4	98.4	98.5
	60.9	89.4	90.6	91.5	93.2	94.5	96.3	97.2	97.8	98.5	98.7	98.7	98.8	99.0	99.2	99.6
≥ 100 ≥ 0	60.9	89.4	90.6	91.5	93.2	94.5	96.6	97.4	98.2	98.8	99.1	99.1	99.2	99.5	99.7	100.0
	60.9	89.4	90.6	91.5	93.2	94.5	96.6	97.4	98.2	98.8	99.1	99.1	99.2	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

2411₂   MALMSTROM AFB MT/GREAT FALLS   68-77   MAR

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	35.6	49.2	49.4	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.8	50.0	50.0
	42.4	59.1	59.2	59.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.9	59.9
≥ 18000 ≥ 15000	42.4	59.2	59.4	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.8	60.0	60.0
	42.4	59.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.3	60.3
≥ 14000 ≥ 12000	43.0	60.2	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.8	61.0	61.0
	45.8	63.2	63.3	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	64.0	64.0
≥ 10000 ≥ 9000	51.1	69.8	69.9	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.6	70.6
	51.5	70.5	70.6	70.8	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.4	71.4
≥ 8000 ≥ 7000	52.6	72.5	72.6	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1	73.3	73.3
	53.1	73.4	73.5	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.3	74.3
≥ 6000 ≥ 5000	54.7	75.4	75.5	75.6	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.2	76.2
	56.0	77.0	77.2	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	78.0	78.0
≥ 4500 ≥ 4000	56.5	78.2	78.5	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.2	79.2
	58.5	81.5	81.9	82.0	82.5	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	83.1	83.1
≥ 3500 ≥ 3000	59.4	82.9	83.3	83.5	84.1	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.8	84.8
	60.2	84.5	85.1	85.3	85.8	86.2	86.3	86.3	86.3	86.3	86.3	86.5	86.6	86.6	86.8	86.8
≥ 2500 ≥ 2000	60.4	85.1	85.7	86.0	86.6	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.3	87.4	87.6	87.6
	60.8	86.9	87.8	88.2	88.7	89.1	89.2	89.7	89.7	89.7	89.7	89.7	89.8	89.9	90.1	90.1
≥ 1800 ≥ 1500	61.0	87.3	88.4	88.7	89.4	89.8	89.9	90.3	90.3	90.3	90.3	90.3	90.4	90.5	90.8	90.8
	61.1	88.0	89.0	89.5	90.6	91.1	91.2	91.7	91.8	91.8	91.8	91.8	91.9	92.0	92.3	92.3
≥ 1200 ≥ 1000	61.1	88.1	89.1	89.7	91.2	91.6	91.8	92.7	92.9	93.0	93.0	93.0	93.1	93.2	93.4	93.4
	61.5	88.7	89.8	90.3	92.0	92.5	92.8	93.8	94.0	94.2	94.3	94.3	94.4	94.5	94.7	94.7
≥ 900 ≥ 800	61.5	88.7	89.8	90.3	92.2	92.7	93.1	94.1	94.3	94.5	94.8	94.9	95.1	95.2	95.4	95.4
	61.5	88.7	89.8	90.3	92.3	92.8	93.2	94.5	94.8	95.1	95.4	95.5	95.6	95.7	95.9	95.9
≥ 700 ≥ 600	61.5	88.9	90.0	90.8	92.7	93.3	93.8	95.1	95.4	95.6	95.9	96.0	96.1	96.2	96.5	96.5
	61.5	89.4	90.5	91.4	93.3	94.0	94.4	95.8	96.1	96.7	97.0	97.1	97.2	97.3	97.5	97.5
≥ 500 ≥ 400	61.6	89.7	90.9	91.7	93.7	94.3	94.8	96.2	96.6	97.1	97.4	97.5	97.6	97.7	98.0	98.0
	61.6	89.7	90.9	91.8	93.9	94.6	95.2	96.6	96.9	97.4	98.0	98.1	98.2	98.3	98.7	98.9
≥ 300 ≥ 200	61.6	89.8	91.0	91.9	94.0	94.8	95.4	97.0	97.3	97.8	98.4	98.5	98.6	98.7	99.1	99.4
	61.6	89.8	91.0	91.9	94.1	94.9	95.5	97.1	97.4	98.0	98.5	98.6	98.7	98.8	99.2	99.6
≥ 100 ≥ 0	61.6	89.8	91.0	91.9	94.1	94.9	95.5	97.3	97.6	98.3	98.9	99.0	99.1	99.2	99.7	100.0
	61.6	89.8	91.0	91.9	94.1	94.9	95.5	97.3	97.6	98.3	98.9	99.0	99.1	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAR

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	46.3	49.0	49.4	49.4	49.5	49.6	49.7	49.7	49.7	49.7	49.8	49.8	49.9	50.0	50.0	50.0
	54.6	58.1	58.4	58.4	58.7	58.8	58.9	58.9	58.9	58.9	59.0	59.0	59.1	59.2	59.2	59.2
≥ 18000 ≥ 16000	54.9	58.4	58.7	58.7	59.0	59.1	59.2	59.2	59.2	59.2	59.4	59.4	59.5	59.6	59.6	59.6
	55.7	59.2	59.6	59.6	59.9	60.0	60.1	60.1	60.1	60.1	60.2	60.2	60.3	60.4	60.4	60.4
≥ 14000 ≥ 12000	56.5	60.0	60.3	60.3	60.6	60.8	60.9	60.9	60.9	60.9	61.0	61.0	61.1	61.2	61.2	61.2
	59.0	62.7	63.0	63.0	63.3	63.4	63.5	63.5	63.5	63.5	63.7	63.7	63.8	63.9	63.9	63.9
≥ 10000 ≥ 9000	66.1	69.9	70.2	70.2	70.5	70.6	70.9	70.9	70.9	70.9	71.0	71.0	71.1	71.2	71.3	71.3
	67.4	71.3	71.6	71.6	71.9	72.0	72.3	72.3	72.3	72.3	72.4	72.4	72.5	72.6	72.7	72.7
≥ 8000 ≥ 7000	70.6	74.5	74.8	74.8	75.2	75.3	75.5	75.5	75.5	75.5	75.6	75.6	75.7	75.8	75.9	75.9
	72.2	76.1	76.5	76.5	76.8	76.9	77.1	77.1	77.1	77.1	77.2	77.2	77.3	77.4	77.5	77.5
≥ 6000 ≥ 5000	73.3	77.5	77.8	77.8	78.2	78.3	78.5	78.5	78.5	78.5	78.6	78.6	78.7	78.8	78.9	78.9
	74.7	79.1	79.5	79.5	79.8	79.9	80.1	80.1	80.1	80.2	80.3	80.3	80.4	80.5	80.6	80.6
≥ 4500 ≥ 4000	75.4	80.3	80.9	80.9	81.2	81.3	81.5	81.5	81.5	81.6	81.7	81.7	81.8	81.9	82.0	82.0
	76.9	82.2	82.7	82.7	83.0	83.1	83.9	83.9	83.9	84.0	84.1	84.1	84.2	84.3	84.4	84.4
≥ 3500 ≥ 3000	77.6	82.9	83.7	83.8	84.3	84.5	85.3	85.3	85.3	85.4	85.5	85.5	85.6	85.7	85.8	85.8
	78.0	83.4	84.3	84.5	85.1	85.3	86.0	86.0	86.0	86.1	86.2	86.2	86.3	86.6	86.6	86.6
≥ 2500 ≥ 2000	78.3	84.5	85.4	85.6	86.1	86.5	87.2	87.2	87.2	87.3	87.4	87.4	87.5	87.6	87.7	87.7
	78.6	85.7	86.7	87.0	87.6	88.1	88.9	89.0	89.0	89.1	89.2	89.2	89.4	89.5	89.6	89.6
≥ 1800 ≥ 1500	78.8	86.3	87.3	87.6	88.3	88.7	89.6	89.7	89.7	89.8	89.9	89.9	90.0	90.1	90.2	90.2
	78.8	86.3	87.3	87.6	88.4	88.8	89.8	89.9	89.9	90.2	90.3	90.3	90.4	90.5	90.6	90.6
≥ 1200 ≥ 1000	79.1	86.8	87.8	88.2	88.9	89.4	90.4	90.8	91.0	91.3	91.4	91.4	91.5	91.6	91.7	91.7
	79.2	87.2	88.3	88.7	89.6	90.1	91.4	91.7	91.9	92.4	92.5	92.5	92.9	93.0	93.1	93.1
≥ 900 ≥ 800	79.4	87.3	88.4	88.8	89.7	90.2	91.6	92.0	92.4	92.8	93.0	93.0	93.5	93.7	93.9	93.9
	79.4	87.4	88.5	88.9	89.8	90.3	91.8	92.3	92.7	93.3	93.7	93.7	94.3	94.6	94.7	94.7
≥ 700 ≥ 600	79.5	87.5	88.6	89.4	90.3	90.9	92.4	92.9	93.3	94.0	94.4	94.4	95.1	95.2	95.5	95.5
	79.6	87.7	88.9	89.8	90.9	91.6	93.1	93.7	94.1	94.7	95.2	95.2	96.0	96.1	96.5	96.7
≥ 500 ≥ 400	79.6	87.8	89.0	89.9	91.1	91.8	93.4	94.0	94.4	95.1	95.5	95.5	96.6	96.7	97.1	97.3
	79.7	88.0	89.1	90.0	91.2	91.9	93.8	94.3	94.7	95.6	96.0	96.1	97.3	97.4	97.8	98.2
≥ 300 ≥ 200	79.8	88.1	89.2	90.1	91.5	92.3	94.1	94.7	95.2	96.0	96.5	96.7	97.8	98.0	98.4	98.8
	79.8	88.2	89.4	90.2	91.6	92.4	94.2	94.8	95.3	96.3	96.8	97.0	98.3	98.4	98.9	99.5
≥ 100 ≥ 0	79.8	88.2	89.4	90.2	91.6	92.4	94.2	95.1	95.6	96.8	97.2	97.4	98.7	98.8	99.4	99.9
	79.8	88.2	89.4	90.2	91.6	92.4	94.2	95.1	95.7	96.9	97.3	97.5	98.8	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   MAR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOUR LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5 16	≥¼	≥0
NO CEILING	50.6	51.8	52.0	52.3	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 20000	61.1	62.5	62.7	62.9	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 18000	61.5	62.9	63.1	63.3	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 16000	61.6	63.0	63.2	63.4	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 14000	63.0	64.4	64.6	64.8	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 12000	66.1	67.5	67.7	68.0	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 10000	72.6	74.2	74.4	74.6	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 9000	73.3	74.9	75.2	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	75.1	76.1	76.1
≥ 8000	75.3	76.9	77.1	77.3	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 7000	76.0	77.6	77.8	78.1	78.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 6000	77.2	78.8	79.0	79.2	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 5000	78.7	80.4	80.6	80.9	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 4500	79.0	81.0	81.2	81.4	82.0	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	80.6	83.0	83.3	83.7	84.3	84.6	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3500	80.8	83.1	83.4	83.9	84.6	84.9	85.1	85.2	85.2	85.2	85.3	85.3	85.4	85.4	85.4	85.4
≥ 3000	81.6	84.1	84.5	84.9	85.7	86.0	86.1	86.5	86.5	86.6	86.6	86.8	86.8	86.8	86.8	86.8
≥ 2500	82.4	85.5	85.9	86.6	87.3	87.6	88.0	88.3	88.3	88.3	88.4	88.4	88.6	88.6	88.6	88.6
≥ 2000	82.9	86.7	87.1	87.7	88.6	88.9	89.2	89.7	89.7	89.7	89.8	89.8	90.0	90.0	90.0	90.0
≥ 1800	82.9	87.0	87.4	88.1	88.9	89.2	89.6	90.0	90.2	90.3	90.4	90.4	90.6	°0.6	90.6	90.6
≥ 1500	83.2	87.4	88.1	88.8	89.7	90.0	90.5	91.1	91.4	91.5	91.6	91.6	91.8	91.8	91.8	91.8
≥ 1200	82.8	88.5	89.2	90.0	90.9	91.3	91.9	92.7	93.3	93.5	93.7	93.7	93.9	94.0	94.0	94.0
≥ 1000	84.0	88.8	89.6	90.4	91.5	92.0	92.8	93.5	94.3	94.6	94.8	94.9	95.3	95.4	95.4	95.4
≥ 900	84.0	88.8	89.8	90.6	91.8	92.4	93.1	93.9	94.6	95.1	95.5	95.6	95.9	96.0	96.0	96.0
≥ 800	84.1	89.0	90.0	90.9	92.0	92.7	93.4	94.2	94.9	95.6	96.1	96.2	96.6	96.7	96.7	96.7
≥ 700	84.1	89.0	90.0	91.0	92.3	92.9	93.9	94.7	95.7	96.3	96.9	97.0	97.3	97.4	97.4	97.4
≥ 600	84.1	89.0	90.0	91.0	92.3	92.9	94.0	94.9	95.9	96.6	97.2	97.4	97.7	97.8	98.0	98.2
≥ 500	84.1	89.0	90.0	91.0	92.4	93.0	94.1	95.3	96.2	97.0	97.7	98.0	98.3	98.4	98.5	98.7
≥ 400	84.1	89.0	90.0	91.0	92.4	93.0	94.1	95.4	96.5	97.2	98.1	98.3	98.6	98.7	98.8	99.0
≥ 300	84.1	89.1	90.1	91.1	92.6	93.2	94.3	95.6	96.7	97.5	98.4	98.6	99.0	99.2	99.4	99.6
≥ 200	84.1	89.1	90.1	91.1	92.6	93.2	94.4	95.7	96.8	97.6	98.5	98.7	99.1	99.4	99.7	99.9
≥ 100	84.1	89.1	90.1	91.1	92.6	93.2	94.4	95.8	96.9	97.7	98.6	98.8	99.2	99.5	99.8	100.0
≥ 0	84.1	89.1	90.1	91.1	92.6	93.2	94.4	95.8	96.9	97.7	98.6	98.8	99.2	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

112 STATION   MALMSTROM AFB MT/GREAT FALLS   68-77 YEARS   MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	46.0	47.5	47.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48	48.1
	57.1	59.0	59.4	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 18000 ≥ 16000	58.0	59.9	60.2	60.6	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
	58.4	60.3	60.6	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 14000 ≥ 12000	59.6	61.5	61.8	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
	64.3	66.2	66.6	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 10000 ≥ 9000	70.0	72.0	72.4	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
	71.1	73.1	73.4	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 8000 ≥ 7000	72.7	74.8	75.2	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
	73.1	75.3	75.6	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000 ≥ 5000	74.4	76.6	76.9	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	78.4	80.6	81.0	81.4	81.4	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 4500 ≥ 4000	79.6	81.8	82.2	82.6	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
	81.3	84.0	84.6	85.2	85.4	85.6	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85
≥ 3500 ≥ 3000	81.5	84.3	84.9	85.5	85.7	85.9	86.1	86.2	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86
	81.9	85.2	85.9	86.5	86.7	87.0	87.2	87.3	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5
≥ 2500 ≥ 2000	82.8	86.2	87.2	87.7	88.0	88.3	88.5	88.6	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8
	83.5	87.6	88.8	89.4	89.6	89.9	90.1	90.2	90.2	90.3	90.3	90.3	90.4	90.4	90.4	90.4
≥ 1800 ≥ 1500	84.1	88.3	89.7	90.2	90.4	90.8	91.0	91.1	91.1	91.2	91.2	91.2	91.3	91.3	91.3	91.3
	84.8	89.2	90.8	91.3	91.8	92.2	92.6	92.8	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.0
≥ 1200 ≥ 1000	85.1	90.0	91.5	92.0	92.8	93.1	93.5	93.8	93.9	94.3	94.3	94.3	94.4	94.4	94.4	94.4
	85.3	91.0	92.6	93.1	94.0	94.3	94.7	94.9	95.2	95.9	96.0	96.1	96.2	96.2	96.2	96.2
≥ 900 ≥ 800	85.3	91.0	92.6	93.2	94.1	94.4	94.9	95.4	95.7	96.6	97.0	97.1	97.2	97.2	97.2	97.2
	85.5	91.3	92.9	93.5	94.5	94.8	95.4	96.0	96.3	97.2	97.6	97.8	98.2	98.2	98.2	98.2
≥ 700 ≥ 600	85.5	91.3	92.9	93.5	94.5	94.8	95.4	96.0	96.3	97.2	97.6	97.8	98.2	98.2	98.2	98.2
	85.5	91.3	92.9	93.5	94.5	94.8	95.4	96.0	96.3	97.4	98.0	98.4	98.9	98.9	98.9	98.9
≥ 500 ≥ 400	85.5	91.3	92.9	93.5	94.5	94.8	95.5	96.1	96.5	97.5	98.1	98.5	99.1	99.1	99.1	99.1
	85.5	91.3	92.9	93.5	94.5	94.8	95.5	96.1	96.5	97.5	98.1	98.5	99.1	99.1	99.1	99.1
≥ 300 ≥ 200	85.5	91.3	92.9	93.5	94.5	94.6	95.5	96.1	96.5	97.6	98.2	98.6	99.2	99.2	99.4	99.4
	85.6	91.4	93.0	93.7	94.6	94.9	95.6	96.2	96.6	97.7	98.4	98.8	99.5	99.5	99.8	99.8
≥ 100 ≥ 0	85.6	91.4	93.0	93.7	94.6	94.9	95.6	96.2	96.6	97.7	98.5	98.9	99.6	99.7	100.0	100.0
	85.6	91.4	93.0	93.7	94.6	94.9	95.6	96.2	96.6	97.7	98.5	98.9	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAR

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5 16	≥¼	≥0
NO CEILING	41.0	41.6	41.8	41.8	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 20000	53.5	54.6	55.1	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000	53.8	54.8	55.3	55.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 16000	53.8	54.8	55.3	55.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 14000	55.1	56.1	56.6	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 12000	61.0	62.0	62.5	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 10000	68.3	69.7	70.1	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 9000	68.6	70.1	70.5	70.6	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 8000	70.9	72.6	73.0	73.1	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 7000	71.2	72.9	73.3	73.4	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 6000	73.0	74.7	75.2	75.3	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 5000	77.5	79.2	79.7	79.8	80.1	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 4500	79.2	81.0	81.5	81.6	82.0	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4000	82.4	84.3	84.9	85.2	85.8	85.9	85.9	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 3500	83.4	85.5	86.2	86.5	87.1	87.2	87.2	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000	83.9	86.2	87.1	87.4	88.1	88.2	88.2	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	84.8	87.7	88.6	88.9	89.6	89.7	89.7	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000	85.6	89.0	90.0	90.3	91.0	91.1	91.1	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800	85.9	89.5	90.4	90.9	91.5	91.7	91.8	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	86.3	89.9	91.1	91.7	92.4	92.6	92.8	93.0	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5
≥ 1200	86.7	91.1	92.3	92.9	93.9	94.1	94.3	94.5	94.9	95.2	95.2	95.3	95.3	95.3	95.3	95.3
≥ 1000	86.7	91.4	92.7	93.3	94.4	94.6	94.9	95.5	95.9	97.0	97.0	97.3	97.3	97.3	97.3	97.3
≥ 900	86.7	91.4	92.7	93.3	94.4	94.6	94.9	95.6	96.1	97.4	97.4	97.7	97.7	97.7	97.7	97.7
≥ 800	86.7	91.5	92.8	93.4	94.6	94.8	95.4	96.0	96.6	98.0	98.0	98.3	98.3	98.3	98.3	98.3
≥ 700	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.1	96.8	98.2	98.3	98.6	98.6	98.6	98.6	98.6
≥ 600	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.1	96.9	98.4	98.6	99.0	99.2	99.2	99.2	99.2
≥ 500	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.1	96.9	98.4	98.6	99.0	99.2	99.2	99.2	99.2
≥ 400	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.1	96.9	98.4	98.6	99.0	99.2	99.1	99.4	99.4
≥ 300	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.1	96.9	98.4	98.6	99.0	99.2	99.2	99.4	99.4
≥ 200	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.2	97.0	98.7	98.9	99.4	99.6	99.6	99.8	99.8
≥ 100	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.2	97.0	98.7	98.9	99.4	99.7	99.7	99.9	99.9
≥ 0	86.8	91.6	92.9	93.5	94.7	94.9	95.5	96.2	97.0	98.7	98.9	99.4	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	35.9	43.7	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
	44.3	53.3	53.5	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥18000 ≥16000	44.4	53.4	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
	44.7	53.8	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥14000 ≥12000	46.1	55.3	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
	50.9	60.4	60.6	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥10000 ≥9000	58.9	69.4	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
	59.9	70.8	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥8000 ≥7000	62.0	73.3	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
	63.3	74.7	74.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥6000 ≥5000	64.5	76.0	76.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
	67.8	79.9	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥4500 ≥4000	69.5	81.7	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
	71.8	84.6	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥3500 ≥3000	72.8	85.7	86.3	86.7	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9
	73.7	86.9	87.8	88.2	88.3	88.3	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥2500 ≥2000	74.2	88.0	89.1	89.5	89.6	89.6	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0
	75.4	89.8	91.3	91.6	91.8	91.8	92.4	92.4	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6
≥1800 ≥1500	75.6	90.1	91.8	92.2	92.4	92.4	92.9	93.0	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3
	75.7	90.5	92.3	92.7	93.0	93.2	94.0	94.1	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5
≥1200 ≥1000	75.9	90.9	92.6	93.0	93.3	93.5	94.3	94.6	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2
	76.0	91.6	93.4	93.9	94.3	94.6	95.6	95.9	96.2	97.0	97.1	97.1	97.2	97.2	97.2	97.2
≥900 ≥800	76.0	91.8	93.7	94.1	94.5	94.8	95.9	96.2	96.6	97.3	97.4	97.4	97.5	97.5	97.5	97.5
	76.0	92.2	94.1	94.5	94.9	95.3	96.3	96.7	97.0	97.7	97.8	97.8	98.0	98.0	98.0	98.0
≥700 ≥600	76.0	92.2	94.2	94.6	95.2	95.5	96.7	97.0	97.3	98.1	98.2	98.4	98.9	98.9	98.9	98.9
	76.0	92.2	94.2	94.6	95.2	95.5	96.7	97.0	97.3	98.1	98.4	98.6	99.2	99.2	99.2	99.2
≥500 ≥400	76.0	92.2	94.2	94.6	95.2	95.5	96.7	97.0	97.3	98.1	98.4	98.6	99.4	99.4	99.4	99.4
	76.0	92.2	94.2	94.6	95.2	95.5	96.7	97.0	97.3	98.1	98.4	98.6	99.4	99.4	99.4	99.4
≥300 ≥200	76.0	92.2	94.2	94.6	95.2	95.5	96.7	97.0	97.3	98.1	98.5	98.7	99.5	99.5	99.5	99.7
	76.0	92.2	94.2	94.6	95.2	95.5	96.9	97.2	97.5	98.3	98.7	98.9	99.7	99.7	99.7	100.0
≥100 ≥0	76.0	92.2	94.2	94.6	95.2	95.5	96.9	97.2	97.5	98.3	98.7	98.9	99.7	99.7	99.8	100.0
	76.0	92.2	94.2	94.6	95.2	95.5	96.9	97.2	97.5	98.3	98.7	98.9	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	35.1	51.0	51.4	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
	42.5	61.4	61.8	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 18000	42.6	61.5	61.9	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 16000	42.6	61.5	61.9	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 14000	43.4	62.4	62.8	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000	47.3	67.2	67.6	67.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	51.2	71.9	72.4	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 9000	52.0	73.1	73.5	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 8000	54.2	76.1	76.6	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 7000	55.1	77.3	77.7	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 6000	55.8	78.5	78.9	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 5000	57.2	81.5	82.0	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4500	57.8	82.4	82.9	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000	59.4	84.6	85.5	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500	59.8	85.5	86.6	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 3000	60.5	86.9	88.0	88.2	88.6	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2500	61.1	87.5	89.5	89.7	90.3	90.4	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2000	61.4	88.4	90.6	90.9	91.7	92.0	92.0	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	61.5	88.7	91.0	91.2	92.0	92.4	92.4	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	61.5	89.4	91.8	92.0	93.0	93.4	93.4	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1200	61.7	90.4	92.9	93.2	94.3	94.7	94.7	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	61.7	90.8	93.5	93.9	95.2	95.6	95.8	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	61.7	90.8	93.5	93.9	95.2	95.6	95.8	96.7	96.7	97.1	97.1	97.1	97.3	97.3	97.3	97.3
≥ 800	61.7	90.8	93.5	93.9	95.2	95.7	96.0	97.0	97.0	97.6	97.6	97.6	97.8	97.8	97.8	97.8
≥ 700	61.7	91.0	93.8	94.1	95.4	95.9	96.2	97.4	97.4	98.1	98.1	98.1	98.3	98.3	98.3	98.3
≥ 600	61.7	91.0	93.8	94.1	95.5	96.0	96.5	97.6	97.7	98.5	98.5	98.5	99.0	99.0	99.0	99.0
≥ 500	61.7	91.0	93.8	94.1	95.5	96.3	96.8	98.1	98.2	98.9	98.9	98.9	99.5	99.5	99.5	99.5
≥ 400	61.7	91.0	93.8	94.1	95.6	96.5	96.9	98.2	98.3	99.1	99.1	99.1	99.7	99.7	99.8	99.8
≥ 300	61.7	91.0	93.8	94.1	95.6	96.5	96.9	98.2	98.3	99.1	99.1	99.1	99.7	99.7	99.8	99.9
≥ 200	61.7	91.0	93.8	94.1	95.6	96.5	96.9	98.2	98.3	99.1	99.1	99.1	99.7	99.7	99.8	99.9
≥ 100	61.7	91.0	93.8	94.1	95.6	96.5	97.0	98.3	98.4	99.2	99.2	99.2	99.8	99.8	99.9	100.0
≥ 0	61.7	91.0	93.8	94.1	95.6	96.5	97.0	98.3	98.4	99.2	99.2	99.2	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 MALMSTRUM AFB MT/GREAT FALLS   68-77   MAR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS ALL

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	40.6	48.0	48.2	48.3	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.6	48.6	48.6	48.6
	49.6	58.6	58.8	59.0	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.4
≥ 18000 ≥ 16000	49.9	58.8	59.1	59.2	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.7
	50.1	59.1	59.4	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9
≥ 14000 ≥ 12000	51.1	60.2	60.4	60.6	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0	61.0	61.0
	54.9	64.3	64.6	64.7	64.9	5.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1
≥ 10000 ≥ 9000	61.0	71.0	71.3	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.9	71.9
	61.8	72.0	72.2	72.4	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.8
≥ 8000 ≥ 7000	63.8	74.4	74.6	74.8	75.0	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.3	75.3
	64.7	75.3	75.6	75.7	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2
≥ 6000 ≥ 5000	65.9	76.7	77.0	77.2	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6
	68.2	79.5	79.8	80.0	80.2	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.5	80.5
≥ 4500 ≥ 4000	69.1	80.7	81.0	81.2	81.5	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.8	81.8
	71.2	83.3	83.8	84.1	84.4	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.9	84.9	84.9
≥ 3500 ≥ 3000	71.8	84.3	84.9	85.2	85.6	85.8	85.9	86.0	86.0	86.0	86.1	86.1	86.1	86.2	86.2	86.2
	72.5	85.4	86.1	86.4	86.9	87.1	87.3	87.4	87.4	87.5	87.5	87.5	87.6	87.6	87.6	87.6
≥ 2500 ≥ 2000	73.1	86.4	87.4	87.7	88.2	88.5	88.7	88.8	88.8	88.9	88.9	88.9	89.0	89.0	89.1	89.1
	73.6	87.7	88.8	89.2	89.8	90.1	90.4	90.7	90.7	90.8	90.8	90.8	90.9	91.0	91.0	91.0
≥ 1800 ≥ 1500	73.8	88.1	89.3	89.7	90.4	90.7	91.0	91.3	91.3	91.5	91.5	91.5	91.6	91.6	91.7	91.7
	74.0	88.6	90.0	90.4	91.3	91.6	92.1	92.4	92.5	92.6	92.7	92.7	92.8	92.8	92.8	92.6
≥ 1200 ≥ 1000	74.3	89.3	90.6	91.1	92.1	92.5	93.0	93.4	93.7	93.9	94.0	94.0	94.1	94.1	94.2	94.2
	74.4	89.7	91.2	91.7	92.8	93.3	94.0	94.5	94.9	95.4	95.5	95.6	95.7	95.7	95.8	95.8
≥ 900 ≥ 800	74.4	89.8	91.3	91.8	92.9	93.4	94.2	94.8	95.2	95.8	96.0	96.0	96.2	96.3	96.3	96.3
	74.4	90.0	91.5	92.0	93.2	93.7	94.5	95.2	95.6	96.3	96.6	96.7	96.9	96.9	97.0	97.0
≥ 700 ≥ 600	74.5	90.1	91.6	92.2	93.4	93.9	94.8	95.6	96.0	96.7	97.0	97.1	97.4	97.4	97.5	97.5
	74.5	90.2	91.7	92.4	93.6	94.2	95.1	95.9	96.4	97.2	97.6	97.7	98.1	98.2	98.3	98.3
≥ 500 ≥ 400	74.5	90.2	91.8	92.5	93.7	94.3	95.3	96.2	96.6	97.5	97.8	98.0	98.5	98.5	98.6	98.7
	74.5	90.3	91.8	92.5	93.8	94.4	95.4	96.3	96.8	97.6	98.0	98.2	98.7	98.8	98.9	99.0
≥ 300 ≥ 200	74.5	90.3	91.8	92.5	93.9	94.5	95.5	96.4	96.9	97.8	98.2	98.4	98.9	99.0	99.2	99.3
	74.6	90.3	91.9	92.6	94.0	94.6	95.7	96.6	97.1	98.0	98.5	98.7	99.2	99.2	99.5	99.7
≥ 100 ≥ 0	74.6	90.3	91.9	92.6	94.0	94.6	95.7	96.7	97.2	98.2	98.7	98.9	99.4	99.5	99.8	100.0
	74.6	90.3	91.9	92.6	94.0	94.6	95.7	96.7	97.2	98.2	98.7	98.9	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   7440

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77   APR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	44.2	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
	48.7	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 18000	48.8	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 16000	48.8	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 14000	48.9	64.6	64.6	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 12000	50.7	66.4	66.4	66.6	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 10000	56.3	73.0	73.0	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 9000	57.2	74.0	74.0	74.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 8000	57.7	74.6	74.6	74.7	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 7000	58.6	75.4	75.4	75.6	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 6000	59.1	76.3	76.3	76.4	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 5000	61.8	79.3	79.3	79.4	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 4500	62.1	79.7	79.7	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000	63.9	81.8	81.8	81.9	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 3500	65.0	83.1	83.1	83.2	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 3000	66.0	84.2	84.2	84.3	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2500	66.4	85.4	85.8	86.0	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2000	67.0	86.6	87.0	87.2	87.7	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1800	67.0	87.3	87.8	88.0	88.4	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1500	67.0	88.2	88.7	89.0	89.4	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200	67.7	89.3	89.8	90.2	90.9	91.2	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1000	67.9	90.0	90.7	91.1	91.8	92.1	92.6	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 900	68.1	90.2	90.9	91.3	92.0	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 800	68.2	90.3	91.0	91.4	92.1	92.4	93.0	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 700	68.2	90.4	91.1	91.6	92.2	92.6	93.1	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 600	68.7	90.9	91.6	92.0	92.7	93.0	93.7	94.4	94.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	68.8	91.1	91.9	92.3	93.1	93.4	94.1	95.2	95.3	95.9	96.0	96.2	96.3	96.3	96.3	96.3
≥ 400	68.8	91.2	92.2	92.7	93.4	93.9	94.6	95.7	96.0	96.6	96.9	97.2	97.3	97.3	97.3	97.3
≥ 300	68.9	91.3	92.4	93.0	93.8	94.2	94.9	96.3	96.7	97.6	97.9	98.2	98.4	98.4	98.4	98.4
≥ 200	68.9	91.3	92.4	93.0	93.9	94.3	95.0	96.7	97.0	97.9	98.3	98.9	99.2	99.2	99.3	99.3
≥ 100	68.9	91.3	92.4	93.0	93.9	94.3	95.0	96.8	97.2	98.2	98.7	99.3	99.7	99.7	99.8	99.8
≥ 0	68.9	91.3	92.4	93.0	93.9	94.3	95.0	96.8	97.2	98.2	98.7	99.3	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 STATION MALMSTROM AFB MT/GREAT FALLS STATION NAME 68-77 YEARS APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	44.6	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1
	50.8	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3
≥18000 ≥16000	51.1	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7
	51.1	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7
≥14000 ≥12000	51.1	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7
	52.2	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0
≥10000 ≥9000	57.6	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.3	72.3	72.3
	57.8	72.2	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.9	72.9	72.9
≥8000 ≥7000	58.8	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	74.0	74.0	74.0
	59.0	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.3	74.3	74.3
≥6000 ≥5000	60.1	75.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.8	75.8	75.8
	62.0	77.6	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.3	78.3	78.3
≥4500 ≥4000	63.1	78.7	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.3	79.3	79.3	79.3	79.4	79.4	79.4
	64.9	81.0	81.4	81.4	81.6	81.6	81.6	81.7	81.7	81.8	81.8	81.8	81.8	81.9	81.9	81.9
≥3500 ≥3000	65.7	81.9	82.4	82.4	82.6	82.6	82.6	82.7	82.7	82.8	82.8	82.8	82.8	82.9	82.9	82.9
	66.8	83.3	84.1	84.1	84.3	84.3	84.3	84.4	84.4	84.6	84.6	84.6	84.6	84.7	84.7	84.7
≥2500 ≥2000	67.2	84.0	84.8	84.9	85.1	85.1	85.1	85.2	85.2	85.3	85.3	85.3	85.3	85.4	85.4	85.4
	67.3	85.1	85.9	86.0	86.3	86.4	86.6	86.7	86.7	86.8	86.8	86.8	86.8	86.9	86.9	86.9
≥1800 ≥1500	67.8	86.0	86.8	86.9	87.3	87.4	87.6	87.7	87.7	87.8	87.8	87.8	87.8	87.9	87.9	87.9
	68.0	87.1	87.9	88.0	88.4	88.8	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.3	89.3	89.3
≥1200 ≥1000	68.7	88.2	89.0	89.2	89.9	90.3	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.9	90.9	90.9
	69.1	89.0	89.8	90.0	90.7	91.1	91.8	92.0	92.0	92.1	92.1	92.1	92.1	92.2	92.2	92.2
≥900 ≥800	69.4	89.4	90.2	90.4	91.1	91.6	92.3	92.6	92.6	92.7	92.7	92.7	92.7	92.8	92.8	92.8
	69.4	89.4	90.3	90.6	91.2	91.7	92.6	92.8	92.8	92.9	92.9	92.9	92.9	93.0	93.0	93.0
≥700 ≥600	69.6	89.6	90.4	90.7	91.4	91.9	92.8	93.3	93.3	93.4	93.4	93.4	93.4	93.6	93.6	93.6
	69.8	89.9	90.9	91.1	91.9	92.3	93.2	93.8	93.8	94.0	94.0	94.1	94.1	94.2	94.2	94.2
≥500 ≥400	69.9	90.2	91.4	91.7	92.7	93.1	94.1	94.8	94.8	95.3	95.6	95.7	95.7	95.8	95.8	95.8
	69.9	90.3	91.6	91.8	93.0	93.4	94.9	95.7	95.7	96.4	96.9	97.0	97.1	97.3	97.3	97.4
≥300 ≥200	70.0	90.4	91.7	91.9	93.1	93.6	95.0	96.0	96.0	96.9	97.6	97.7	97.8	98.2	98.2	98.3
	70.0	90.4	91.8	92.0	93.2	93.9	95.3	96.3	96.3	97.3	98.0	98.1	98.2	98.8	98.9	99.0
≥100 ≥0	70.0	90.4	91.8	92.0	93.2	93.9	95.4	96.4	96.4	97.6	98.3	98.4	98.6	99.1	99.2	99.4
	70.0	90.4	91.8	92.0	93.2	93.9	95.4	96.4	96.4	97.6	98.3	98.4	98.7	99.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 900

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 APR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING	46.4	46.8	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 20000	56.0	56.3	56.4	56.9	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.2
≥ 18000	56.4	56.8	56.9	57.3	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7
≥ 16000	56.4	56.8	56.9	57.3	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7
≥ 14000	57.6	57.9	58.0	58.4	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	58.8
≥ 12000	60.9	61.2	61.3	61.8	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1
≥ 10000	67.9	68.4	68.6	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.6
≥ 9000	69.0	69.6	69.7	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.6	70.6	70.7
≥ 8000	70.7	71.3	71.4	71.9	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.3	72.3	72.4
≥ 7000	71.8	72.4	72.6	73.0	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.4	73.4	73.6
≥ 6000	72.6	73.2	73.3	73.9	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.3	74.3	74.4
≥ 5000	75.1	75.9	76.0	76.6	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.1
≥ 4500	76.0	77.2	77.3	77.9	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.3	78.3	78.4
≥ 4000	77.6	79.0	79.1	79.7	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.2	80.2	80.3
≥ 3500	79.2	80.7	80.8	81.3	81.7	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	82.1	82.1	82.2
≥ 3000	80.0	81.7	81.9	82.7	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.4	83.4	83.6
≥ 2500	80.8	83.1	83.4	84.3	84.8	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.2	85.2	85.3
≥ 2000	81.7	84.0	84.3	85.3	85.8	85.9	86.1	86.6	86.6	86.6	86.7	86.7	86.7	86.9	86.9	87.1
≥ 1800	82.0	84.4	84.8	85.8	86.3	86.4	86.7	87.1	87.1	87.1	87.2	87.2	87.2	87.4	87.4	87.7
≥ 1500	83.0	86.2	86.6	87.6	88.4	88.6	88.8	89.2	89.2	89.2	89.3	89.3	89.3	89.6	89.6	89.8
≥ 1200	83.2	86.9	87.7	88.8	89.8	89.9	90.2	90.7	90.9	90.9	91.0	91.0	91.0	91.2	91.2	91.4
≥ 1000	83.6	87.7	88.4	89.7	90.7	90.8	91.3	91.8	92.0	92.0	92.2	92.2	92.2	92.4	92.4	92.7
≥ 900	83.7	87.8	88.6	89.8	90.8	90.9	91.4	91.9	92.1	92.1	92.3	92.3	92.3	92.6	92.6	92.8
≥ 800	83.7	87.8	88.6	89.8	90.9	91.0	91.6	92.0	92.2	92.2	92.4	92.4	92.4	92.7	92.7	92.9
≥ 700	83.7	87.8	88.8	90.2	91.3	91.4	92.0	92.4	92.7	92.8	93.0	93.0	93.0	93.2	93.2	93.4
≥ 600	83.8	88.1	89.2	90.8	92.2	92.6	93.1	93.7	93.9	94.0	94.2	94.3	94.3	94.6	94.6	94.8
≥ 500	83.8	88.4	89.6	91.2	92.7	93.0	93.7	94.3	94.7	94.9	95.2	95.3	95.3	95.6	95.6	95.8
≥ 400	83.9	88.7	89.9	91.6	93.0	93.3	94.1	94.9	95.2	95.7	96.2	96.4	96.7	96.9	96.9	97.2
≥ 300	83.9	88.8	90.1	91.8	93.3	93.7	94.6	95.4	95.8	96.3	96.9	97.2	97.4	97.9	98.0	98.4
≥ 200	83.9	88.8	90.1	91.8	93.7	94.0	94.9	95.8	96.2	96.9	97.4	97.8	98.0	98.6	98.8	99.3
≥ 100	83.9	88.8	90.1	91.8	93.7	94.0	95.0	95.9	96.3	97.2	97.8	98.1	98.4	99.0	99.2	99.9
≥ 0	83.9	88.8	90.1	91.8	93.7	94.0	95.0	95.9	96.3	97.2	97.8	98.1	98.4	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112 STATION · MALMSTROM AFB MT/GREAT FALLS STATION NAME · 68-77 YEARS · APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	47.8	48.0	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
	55.7	55.9	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 18000 ≥ 16000	56.2	56.4	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
	56.2	56.4	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000 ≥ 12000	56.7	56.9	57.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
	61.3	61.6	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000 ≥ 9000	67.1	67.4	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
	67.8	68.1	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 8000 ≥ 7000	71.0	71.6	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
	71.8	72.4	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 6000 ≥ 5000	73.2	74.1	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
	76.0	77.0	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500 ≥ 4000	77.4	78.4	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
	78.9	80.3	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500 ≥ 3000	79.9	81.3	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
	81.6	83.1	83.2	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2500 ≥ 2000	82.6	84.6	84.7	85.1	85.2	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
	84.0	86.7	86.8	87.2	87.3	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800 ≥ 1500	84.1	86.8	86.9	87.3	87.4	87.7	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
	84.4	87.9	88.0	88.6	88.7	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1200 ≥ 1000	84.7	88.6	88.8	89.6	90.1	90.4	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	85.0	89.1	89.8	90.9	91.4	91.8	92.3	92.6	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
≥ 900 ≥ 800	85.2	89.6	90.2	91.6	92.1	92.4	93.0	93.2	93.3	93.4	93.6	93.6	93.6	93.6	93.6	93.6
	85.2	89.8	90.6	92.1	92.9	93.2	93.8	94.1	94.2	94.3	94.6	94.6	94.6	94.6	94.6	94.6
≥ 700 ≥ 600	85.6	90.3	91.1	92.7	93.6	93.9	94.4	95.0	95.1	95.2	95.4	95.4	95.4	95.4	95.4	95.4
	85.7	90.9	91.8	93.3	94.2	94.6	95.1	95.7	95.8	96.1	96.4	96.4	96.6	96.8	96.8	96.8
≥ 500 ≥ 400	85.7	91.0	91.9	93.4	94.8	95.1	95.7	96.2	96.3	96.8	97.1	97.1	97.4	97.7	97.7	97.7
	85.7	91.0	92.1	93.7	95.0	95.3	95.9	96.6	96.7	97.1	97.7	97.7	98.1	98.4	98.6	98.6
≥ 300 ≥ 200	85.7	91.0	92.1	93.9	95.3	95.7	96.3	97.0	97.1	97.7	98.2	98.2	98.7	99.0	99.1	99.2
	85.7	91.0	92.1	93.9	95.3	95.7	96.3	97.0	97.1	97.8	98.3	98.3	98.8	99.1	99.2	99.3
≥ 100 ≥ 0	85.7	91.0	92.1	93.9	95.3	95.7	96.3	97.0	97.1	97.8	98.4	98.6	99.2	99.6	99.7	99.8
	85.7	91.0	92.1	93.9	95.3	95.7	96.3	97.0	97.1	97.8	98.6	98.7	99.4	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

<u>24112</u> STATION   <u>MALMSTROM AFB MT/GREAT FALLS</u> STATION NAME   <u>68-77</u> YEARS   <u>APR</u> MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

<u>1200-1400</u> HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8	40.8 51.8
≥ 18000 ≥ 16000	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1	52.1 52.1
≥ 14000 ≥ 12000	52.2 54.9	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0	52.2 55.0
≥ 10000 ≥ 9000	58.7 59.3	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4	58.8 59.4
≥ 8000 ≥ 7000	63.1 65.1	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2	63.2 65.2
≥ 6000 ≥ 5000	69.8 75.3	69.9 75.6	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7	69.9 75.7
≥ 4500 ≥ 4000	77.0 80.8	77.2 81.2	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3	77.3 81.3
≥ 3500 ≥ 3000	82.0 84.1	82.4 84.9	82.6 85.0	82.6 85.0	82.6 85.0	82.6 85.1	82.6 85.1	82.6 85.1	82.6 85.1	82.6 85.1	82.6 35.1	82.6 85.1	82.6 85.1	82.6 85.1	82.6 85.1	82.6 85.1
≥ 2500 ≥ 2000	85.6 86.9	86.6 88.4	86.7 88.6	86.8 88.7	86.8 88.7	87.0 88.9	87.0 88.9	87.1 89.0	87.1 89.0	87.2 89.2	87.2 89.2	87.2 89.2	87.2 89.2	87.2 89.2	87.2 89.2	87.2 89.2
≥ 1800 ≥ 1500	87.1 87.4	88.8 89.7	88.9 89.9	89.0 90.0	89.0 90.0	89.2 90.3	89.2 90.3	89.3 90.4	89.3 90.4	89.6 90.7	89.6 90.8	89.6 90.8	89.6 90.8	89.6 90.8	89.6 90.8	89.6 90.8
≥ 1200 ≥ 1000	88.1 88.6	91.0 91.8	91.2 92.1	91.6 92.7	91.7 93.0	92.0 93.4	92.2 93.8	92.3 93.9	92.3 94.0	92.6 94.2	92.7 94.3	92.7 94.3	92.7 94.4	92.7 94.4	92.7 94.4	92.7 94.4
≥ 900 ≥ 800	88.6 88.7	91.9 92.0	92.3 92.4	93.0 93.1	93.3 93.7	93.8 94.1	94.1 94.7	94.2 94.9	94.3 95.0	94.8 95.4	94.9 95.6	94.9 95.7	95.0 95.8	95.0 95.8	95.0 95.8	95.0 95.8
≥ 700 ≥ 600	88.7 88.7	92.1 92.2	92.8 92.9	93.6 93.7	94.2 94.3	94.7 94.8	95.2 95.3	95.6 95.7	95.7 95.8	96.3 96.7	96.4 96.8	96.7 97.1	96.8 97.2	96.8 97.3	96.8 97.3	96.8 97.3
≥ 500 ≥ 400	88.8 88.8	92.3 92.6	93.3 93.6	94.3 94.6	95.0 95.2	95.6 95.8	96.2 96.4	96.6 96.8	96.7 96.9	97.6 97.8	97.7 98.3	98.0 98.7	98.1 98.8	98.2 98.9	98.2 99.1	98.2 99.1
≥ 300 ≥ 200	88.8 88.8	92.6 92.6	93.6 93.6	94.6 94.7	95.2 95.3	95.8 95.9	96.4 96.6	96.8 96.9	96.9 97.2	97.8 98.1	98.3 98.7	98.7 99.0	98.9 99.2	99.0 99.3	99.3 99.7	99.4 99.8
≥ 100 ≥ 0	88.8 88.8	92.6 92.6	93.6 93.6	94.7 94.7	95.3 95.3	95.9 95.9	96.6 96.6	96.9 96.9	97.2 97.2	98.1 98.1	98.7 98.7	99.0 99.0	99.3 99.3	99.6 99.6	99.9 99.9	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	38.0 49.2	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3	38.1 49.3
≥ 18000 ≥ 16000	49.7 49.7	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8	49.8 49.8
≥ 14000 ≥ 12000	50.4 54.0	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1	50.6 54.1
≥ 10000 ≥ 9000	59.2 59.7	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8	59.3 59.8
≥ 8000 ≥ 7000	61.8 64.4	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7	61.9 64.7
≥ 6000 ≥ 5000	70.8 77.2	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4	71.0 77.4
≥ 4500 ≥ 4000	78.2 81.4	78.4 81.8	78.4 81.9	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0	78.4 82.0
≥ 3500 ≥ 3000	83.7 85.4	84.0 86.0	84.1 86.1	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3	84.2 86.3
≥ 2500 ≥ 2000	56.9 88.2	87.6 89.4	87.9 89.8	88.1 90.0	88.1 90.0	88.1 90.1	88.1 90.1	88.1 90.1	88.1 90.2	88.1 90.2	88.1 90.2	88.1 90.2	88.1 90.2	88.1 90.2	88.1 90.2	88.1 90.2
≥ 1800 ≥ 1500	88.4 89.8	89.7 91.8	90.0 92.2	90.2 92.4	90.2 92.8	90.3 93.0	90.3 93.0	90.3 93.0	90.4 93.1	90.4 93.1	90.4 93.1	90.4 93.1	90.4 93.1	90.4 93.1	90.4 93.1	90.4 93.1
≥ 1200 ≥ 1000	90.8 91.2	93.1 93.8	93.6 94.3	93.8 94.7	94.1 95.1	94.3 95.3	94.3 95.4	94.3 95.4	94.4 95.6	94.4 95.6	94.4 95.6	94.4 95.7	94.4 95.7	94.4 95.7	94.4 95.7	94.4 95.7
≥ 900 ≥ 800	91.2 91.3	93.8 93.9	94.3 94.4	94.7 94.8	95.2 95.3	95.6 95.7	95.7 95.8	95.7 95.8	95.8 96.0	95.8 96.1	95.8 96.1	95.9 96.2	95.9 96.2	95.9 96.2	95.9 96.2	95.9 96.2
≥ 700 ≥ 600	91.4 91.7	94.0 94.3	94.8 95.1	95.1 95.4	95.7 96.0	96.0 96.3	96.2 96.6	96.3 96.7	96.7 97.0	97.1 97.4	97.1 97.4	97.3 97.8	97.3 97.8	97.3 97.8	97.3 97.8	97.3 97.8
≥ 500 ≥ 400	91.8 91.8	94.6 94.6	95.3 95.3	95.8 95.8	96.3 96.3	96.7 96.7	96.9 96.9	97.1 97.1	97.4 97.4	98.0 98.1	98.2 98.3	98.7 98.9	98.8 99.2	98.8 99.2	98.8 99.4	98.8 99.4
≥ 300 ≥ 200	91.8 91.8	94.6 94.6	95.3 95.3	95.8 95.8	96.3 96.3	96.7 96.7	96.9 96.9	97.1 97.1	97.4 97.6	98.1 98.3	98.3 98.6	98.9 99.2	99.3 99.7	99.3 99.7	99.7 99.7	99.7 100.0 100.0
≥ 100 ≥ 0	91.8 91.8	94.6 94.6	95.3 95.3	95.8 95.8	96.3 96.3	96.7 96.7	96.9 96.9	97.1 97.1	97.6 97.6	98.3 98.3	98.6 98.6	99.2 99.2	99.7 99.7	99.7 99.7	99.7 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS 1 S°

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥⅞	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	41.9 52.1	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4	43.8 55.4
≥ 18000 ≥ 16000	52.8 52.8	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1
≥ 14000 ≥ 12000	53.0 57.6	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3	56.3 61.3
≥ 10000 ≥ 9000	64.8 65.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2	68.7 69.2
≥ 8000 ≥ 7000	67.7 69.1	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4
≥ 6000 ≥ 5000	72.3 75.9	76.8 80.7	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8	76.8 80.8
≥ 4500 ≥ 4000	77.8 80.3	82.7 85.8	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9	82.8 85.9
≥ 3500 ≥ 3000	81.9 83.9	87.4 89.6	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8	87.6 89.8
≥ 2500 ≥ 2000	84.3 84.9	90.9 92.1	91.2 92.6	91.2 92.7	91.6 93.0	91.6 93.0	91.6 93.0	91.6 93.0	91.6 93.0	91.6 93.0	91.6 93.1	91.6 93.1	91.6 93.1	91.6 93.1	91.6 93.1	91.6 93.1
≥ 1800 ≥ 1500	85.2 85.7	92.8 93.2	93.2 94.0	93.3 94.1	93.7 94.4	93.7 94.4	93.7 94.4	93.7 94.4	93.7 94.4	93.7 94.4	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6
≥ 1200 ≥ 1000	86.0 86.1	93.6 94.0	94.3 95.0	94.6 95.4	94.9 95.8	94.9 95.8	95.1 96.0	95.2 96.1	95.2 96.1	95.2 96.1	95.3 96.2	95.3 96.2	95.3 96.2	95.3 96.2	95.3 96.2	95.3 96.2
≥ 900 ≥ 800	86.2 86.6	94.1 94.4	95.1 95.4	95.6 96.0	95.9 96.3	95.9 96.3	96.1 96.6	96.3 96.8	96.3 97.1	96.3 97.1	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2	96.4 97.2
≥ 700 ≥ 600	86.9 86.9	94.9 94.9	95.9 96.0	96.4 96.6	96.8 96.9	96.8 96.9	97.0 97.1	97.2 97.4	97.7 98.0	97.7 98.1	97.8 98.2	97.9 98.3	97.9 98.3	97.9 98.3	97.9 98.3	97.9 98.3
≥ 500 ≥ 400	87.0 87.0	95.0 95.1	96.1 96.2	96.8 96.9	97.1 97.2	97.1 97.2	97.3 97.4	97.7 97.9	98.2 98.4	98.4 98.7	98.7 99.0	98.9 99.2	99.0 99.3	99.0 99.3	99.0 99.3	99.0 99.3
≥ 300 ≥ 200	87.0 87.0	95.1 95.1	96.2 96.2	96.9 96.9	97.2 97.2	97.2 97.2	97.6 97.6	98.0 98.0	98.6 98.6	98.8 98.8	99.1 99.2	99.3 99.4	99.6 99.7	99.7 99.8	99.8 99.9	99.9 100.0
≥ 100 ≥ 0	87.0 87.0	95.1 95.1	96.2 96.2	96.9 96.9	97.2 97.2	97.2 97.2	97.6 97.6	98.0 98.0	98.6 98.6	98.8 98.8	99.2 99.2	99.4 99.4	99.7 99.7	99.8 99.8	99.9 99.9	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥ .	≥0
NO CEILING ≥ 20000	39.9	52.0	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
	45.3	60.6	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 18000 ≥ 16000	45.6	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
	45.6	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 14000 ≥ 12000	46.1	61.3	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
	49.4	65.2	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 10000 ≥ 9000	54.8	71.2	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
	55.8	72.2	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 8000 ≥ 7000	57.0	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
	58.3	75.2	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 6000 ≥ 5000	59.7	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
	63.0	80.6	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 4500 ≥ 4000	63.6	81.1	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
	65.6	83.7	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500 ≥ 3000	66.4	85.1	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
	67.2	86.2	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 2500 ≥ 2000	67.7	87.1	87.4	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
	67.9	87.6	88.0	88.7	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 1800 ≥ 1500	67.9	87.9	88.4	89.2	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
	68.4	89.1	89.8	90.6	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1200 ≥ 1000	69.1	89.8	90.6	91.3	92.0	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
	69.1	90.1	90.9	91.7	92.4	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 900 ≥ 800	69.1	90.1	90.9	91.7	92.4	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
	69.3	90.6	91.4	92.3	93.1	93.6	93.7	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700 ≥ 600	69.3	90.7	91.6	92.4	93.2	93.7	93.8	94.2	94.2	94.4	94.4	94.6	94.6	94.6	94.6	94.6
	70.1	91.4	92.4	93.4	94.2	94.7	94.9	95.6	95.8	96.0	96.0	96.2	96.2	96.2	96.3	96.3
≥ 500 ≥ 400	70.3	92.0	93.0	94.0	94.9	95.3	95.9	96.7	96.9	97.1	97.1	97.7	97.7	97.7	97.8	97.8
	70.3	92.2	93.2	94.2	95.3	95.9	96.4	97.2	97.4	97.9	97.9	98.4	98.4	98.4	98.6	98.6
≥ 300 ≥ 200	70.3	92.3	93.3	94.3	95.7	96.2	97.0	98.0	98.2	98.8	98.8	99.3	99.4	99.4	99.6	99.6
	70.3	92.3	93.3	94.3	95.7	96.4	97.2	98.2	98.4	99.0	99.0	99.6	99.7	99.7	99.8	99.8
≥ 100 ≥ 0	70.3	92.3	93.3	94.3	95.7	96.4	97.2	98.2	98.4	99.0	99.1	99.7	99.8	99.8	99.9	99.9
	70.3	92.3	93.3	94.3	95.7	96.4	97.2	98.2	98.4	99.1	99.2	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL — HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5 16	≥¼	≥0
NO CEILING	42.9	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.9	47.9	47.9
≥ 20000	51.2	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5
≥ 18000	51.6	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 16000	51.6	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 14000	52.0	58.0	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 12000	55.1	61.3	61.4	61.5	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000	60.8	67.3	67.4	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.7
≥ 9000	61.5	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 8000	63.5	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.5
≥ 7000	64.8	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 6000	67.2	74.1	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5
≥ 5000	70.8	78.0	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4
≥ 4500	71.9	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6
≥ 4000	74.2	81.8	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3
≥ 3500	75.5	83.3	83.4	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8
≥ 3000	76.9	84.9	85.1	85.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6
≥ 2500	77.7	86.2	86.5	86.8	87.0	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 2000	78.5	87.5	87.9	88.2	88.5	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9
≥ 1800	78.7	88.0	88.3	88.7	89.0	89.1	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.5
≥ 1500	79.2	89.2	89.6	90.0	90.4	90.6	90.7	90.8	90.8	90.9	90.9	90.9	90.9	91.0	91.0	91.0
≥ 1200	79.8	90.1	90.6	91.1	91.7	91.9	92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.5	92.5
≥ 1000	80.1	90.7	91.4	92.0	92.6	92.9	93.3	93.5	93.6	93.6	93.7	93.7	93.7	93.8	93.8	93.8
≥ 900	80.2	90.9	91.6	92.3	92.9	93.2	93.6	93.8	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.2
≥ 800	80.3	91.0	91.8	92.5	93.2	93.5	93.9	94.3	94.4	94.5	94.6	94.6	94.6	94.7	94.7	94.7
≥ 700	80.4	91.2	92.1	92.8	93.6	93.9	94.3	94.8	94.9	95.1	95.2	95.3	95.3	95.3	95.3	95.4
≥ 600	80.7	91.6	92.5	93.3	94.1	94.4	94.9	95.4	95.6	95.9	96.0	96.1	96.2	96.3	96.3	96.3
≥ 500	80.8	91.8	92.8	93.7	94.6	94.9	95.5	96.1	96.3	96.8	96.9	97.2	97.3	97.4	97.4	97.4
≥ 400	80.8	92.0	93.0	93.9	94.8	95.2	95.8	96.5	96.7	97.3	97.7	97.9	98.1	98.2	98.3	98.4
≥ 300	80.8	92.0	93.1	94.0	95.0	95.4	96.1	96.8	97.1	97.7	98.1	98.4	98.7	98.9	99.0	99.1
≥ 200	80.8	92.0	93.1	94.0	95.1	95.5	96.2	97.0	97.3	98.0	98.4	98.8	99.1	99.3	99.4	99.6
≥ 100	80.8	92.0	93.1	94.0	95.1	95.5	96.3	97.0	97.4	98.1	98.6	99.0	99.3	99.5	99.7	99.8
≥ 0	80.8	92.0	93.1	94.0	95.1	95.5	96.3	97.0	97.4	98.1	98.6	99.0	99.3	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   7200

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	47.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
	53.7	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 18000 ≥ 16000	53.9	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
	54.1	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 14000 ≥ 12000	54.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
	57.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000 ≥ 9000	61.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
	62.2	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 8000 ≥ 7000	62.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
	64.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000 ≥ 5000	64.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
	67.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4500 ≥ 4000	67.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
	68.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500 ≥ 3000	69.8	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
	70.5	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500 ≥ 2000	71.2	90.4	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	71.7	91.2	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1800 ≥ 1500	71.8	91.9	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
	72.5	92.9	93.9	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1200 ≥ 1000	73.1	94.1	95.2	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	73.4	94.7	96.2	96.5	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900 ≥ 800	73.4	94.7	96.2	96.5	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	73.5	94.9	96.5	95.7	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700 ≥ 600	73.9	95.6	97.3	97.5	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
	74.1	95.8	97.7	98.0	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500 ≥ 400	74.1	95.8	98.0	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	74.1	95.8	98.0	98.2	98.6	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300 ≥ 200	74.1	95.8	98.1	98.3	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	74.1	95.9	98.2	98.4	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100 ≥ 0	74.1	95.9	98.2	98.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	74.1	95.9	98.2	98.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET		VISIBILITY (STATUTE MILES)														
	≥10	>6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≤5/16	≥¼	≥0
NO CEILING	47.8	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥20000	53.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥18000	53.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥15000	54.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥14000	54.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥12000	57.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥10000	63.5	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥9000	64.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥8000	68.0	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥7000	68.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥6000	70.4	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥5000	73.4	83.9	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥4500	74.1	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥4000	75.3	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥3500	75.8	86.9	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥3000	76.7	88.0	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥2500	77.4	88.7	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥2000	78.4	90.0	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥1800	78.4	90.4	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥1500	78.8	91.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥1200	79.6	92.7	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥1000	79.9	93.2	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥900	80.2	93.5	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥800	80.4	94.0	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥700	80.8	94.4	96.1	96.1	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥600	81.2	94.9	97.0	97.0	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥500	81.5	95.3	97.6	97.6	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥400	81.5	95.3	97.7	97.7	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥300	81.6	95.6	98.2	98.2	98.7	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥200	81.9	95.9	98.6	98.6	99.2	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	81.9	95.9	98.6	98.6	99.2	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	81.9	95.9	98.6	98.6	99.2	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   HALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥20000	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5	51.9 57.5
≥18000 ≥16000	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6	57.6 57.6
≥14000 ≥12000	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2	58.2 62.2
≥10000 ≥9000	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2	70.8 72.2
≥8000 ≥7000	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2	77.7 79.2
≥6000 ≥5000	81.0 82.8	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0	81.1 83.0
≥4500 ≥4000	82.9 84.1	83.4 84.7	83.5 84.9	83.5 84.9	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1	83.5 85.1
≥3500 ≥3000	85.2 86.6	86.0 88.0	86.2 88.2	86.2 88.3	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5	86.3 88.5
≥2500 ≥2000	87.2 88.1	88.7 89.8	88.9 90.3	89.0 90.4	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9	89.4 90.9
≥1800 ≥1500	88.2 88.3	90.1 90.5	90.6 91.3	90.8 91.5	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0	91.2 92.0
≥1200 ≥1000	89.1 90.0	92.2 93.0	92.9 93.8	93.1 94.2	93.9 95.2	93.9 95.2	93.9 95.2	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3	94.0 95.3
≥900 ≥850	90.0 90.4	93.3 93.8	94.1 94.5	94.5 94.9	95.5 95.9	95.5 95.9	95.5 95.9	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0
≥700 ≥600	90.6 91.5	94.1 95.1	94.8 95.8	95.3 96.2	96.5 97.5	96.5 97.6	96.5 97.6	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8	96.7 97.8
≥500 ≥400	91.5 91.5	95.1 95.1	95.8 95.8	96.2 96.2	97.5 97.6	97.8 98.1	97.8 98.1	98.1 98.3	98.1 98.4	98.1 98.4	98.1 98.4	98.1 98.4	98.1 98.4	98.1 98.4	98.1 98.4	98.1 98.4
≥300 ≥200	91.7 91.7	95.4 95.6	96.6 96.8	97.0 97.3	98.5 98.8	98.9 99.2	98.9 99.5	99.1 99.7	99.4 99.9	99.4 99.9	99.4 99.9	99.4 99.9	99.4 99.9	99.4 99.9	99.4 99.9	99.4 99.9
≥100 0	91.7 91.7	95.6 95.6	96.8 96.8	97.3 97.3	98.8 98.8	99.2 99.2	99.6 99.6	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALHSTROM AFB MT/GREAT FALLS   08-77   MAY

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	<0
NO CEILING	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 20000	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 18000	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 16000	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 14000	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 9000	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 8000	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 7000	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 6000	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 5000	80.8	81.3	81.3	81.3	.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500	81.5	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 4000	83.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	84.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 3000	85.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 2500	86.9	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2000	89.0	90.8	91.1	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	89.5	91.2	91.5	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1500	90.6	92.4	92.8	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1200	91.9	94.3	94.9	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1000	92.7	95.7	96.5	96.6	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	92.8	96.0	96.8	96.9	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	92.9	96.2	97.0	97.1	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	93.1	96.7	97.4	97.5	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	93.4	97.1	98.0	98.1	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	93.5	97.4	98.4	98.5	99.0	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	93.7	97.5	98.5	98.6	99.1	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
≥ 300	93.7	97.5	98.5	98.6	99.1	99.2	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
≥ 200	93.7	97.5	98.5	98.6	99.1	99.2	99.4	99.6	99.7	99.8	99.8	99.8	99.9	100.0	100.0	100.0
≥ 100	93.7	97.5	98.5	98.6	99.1	99.2	99.4	99.6	99.7	99.8	99.8	99.8	99.9	100.0	100.0	100.0
≥ 0	93.7	97.5	98.5	98.6	99.1	99.2	99.4	99.6	99.7	99.8	99.8	99.8	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTRUM AFB MT/GREAT FALLS   68-77   MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5 16	≥¼	≥0
NO CEILING ≥20000	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥18000 ≥16000	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥14000 ≥12000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥10000 ≥9000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥8000 ≥7000	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥6000 ≥5000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥4500 ≥4000	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
	83.4	83.7	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥3500 ≥3000	85.6	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
	87.6	88.3	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥2500 ≥2000	89.5	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
	91.7	92.9	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥1800 ≥1500	91.9	93.2	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	92.7	94.5	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥1200 ≥1000	93.8	95.8	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
	93.8	96.5	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥900 ≥800	93.8	96.5	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	93.8	96.5	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥700 ≥600	93.9	96.7	98.0	98.2	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	94.0	96.9	98.3	98.6	98.6	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥500 ≥400	94.0	97.0	98.4	98.7	99.0	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	94.0	97.0	98.6	98.9	99.2	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥300 ≥200	94.0	97.0	98.6	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	94.0	97.0	98.6	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100 ≥0	94.0	97.0	98.6	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	94.0	97.0	98.6	98.9	99.2	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≤5/16	≥¼	<0
NO CEILING	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≤20000	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥18000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥16000	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥14000	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥12000	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥10000	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥9000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥8000	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥7000	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥6000	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥5000	80.6	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥4500	82.3	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥4000	85.7	86.6	86.9	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥3500	87.2	88.3	88.6	88.7	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥3000	89.0	90.2	90.5	90.6	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥2500	90.1	91.5	91.8	91.9	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥2000	91.4	93.2	93.5	93.8	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥1800	91.6	93.5	93.9	94.1	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥150'	93.0	95.5	95.9	96.2	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥1200	93.5	96.1	96.6	97.1	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥1000	93.7	96.2	96.7	97.2	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥900	93.7	96.2	96.8	97.3	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥80'	94.2	96.9	97.4	98.0	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥700	94.2	97.1	97.8	98.4	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥600	94.2	97.2	98.2	98.7	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥500	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥40'	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	94.2	97.4	98.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY

STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS LT

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{3}{8}$	$\geq 5/16$	$\geq \frac{1}{4}$	≥ 0
NO CEILING ≥ 20000	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≤ 18000 ≥ 16000	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≤ 14000 ≥ 12000	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 10000 ≥ 9000	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 8000 ≥ 7000	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 6000 ≥ 5000	81.5	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
	85.2	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 4500 ≥ 4000	86.5	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
	88.9	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3500 ≥ 3000	90.3	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
	91.1	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 2500 ≥ 2000	92.5	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	93.1	94.8	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1800 ≥ 1500	93.3	95.3	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	93.9	96.2	96.6	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200 ≥ 1000	94.1	96.8	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	94.4	97.4	97.8	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900 ≥ 800	94.5	97.7	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	94.5	97.7	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700 ≥ 600	94.5	98.0	98.4	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	94.5	98.2	98.7	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500 ≥ 400	94.7	98.5	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	94.7	98.5	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300 ≥ 200	94.7	98.5	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	94.7	98.5	99.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	94.7	98.5	99.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	94.7	98.5	99.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   MAY
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	<0
NO CEILING	44.0	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 20000	49.0	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 18000	49.4	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.0	61.8	61.8	61.8
≥ 16000	49.6	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000	50.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 12000	54.5	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 10000	59.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 9000	61.1	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 8000	63.2	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 7000	64.5	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000	66.6	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 5000	69.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4500	69.4	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4000	70.4	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 3500	70.6	89.2	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 3000	71.3	90.9	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500	72.0	92.0	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2000	72.5	92.6	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	73.0	93.5	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1500	73.8	94.8	95.5	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200	74.2	95.8	96.8	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	74.3	96.0	97.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 900	74.4	96.3	97.6	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 800	74.4	96.5	97.7	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	74.4	96.5	97.7	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	74.5	96.6	98.2	98.6	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	74.5	96.9	98.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	74.5	96.9	98.9	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	74.5	96.9	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	74.5	96.9	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	74.5	96.9	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	74.5	96.9	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   MAY

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS ALL

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≤0
NO CEILING	46.8	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 20000	55.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 18000	55.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 16000	55.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 14000	55.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000	59.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	61.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 10000	65.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 9000	67.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 8000	69.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 7000	70.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 6000	73.4	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 5000	77.0	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4500	77.9	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 4000	80.0	86.4	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 3500	81.1	87.7	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3000	82.3	89.3	89.5	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2500	83.3	90.5	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000	84.5	91.9	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1800	84.7	92.4	92.9	93.0	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	85.4	93.5	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1200	86.2	94.7	95.5	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1000	86.5	95.3	96.3	96.6	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	86.6	95.6	96.5	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	86.8	95.8	96.8	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	86.9	96.1	97.2	97.5	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	87.2	96.5	97.7	98.1	98.5	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	87.3	96.7	98.1	98.4	98.9	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	87.3	96.7	98.1	98.5	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	87.3	96.8	98.3	98.6	99.2	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
≥ 200	87.4	96.8	98.4	98.8	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	87.4	96.8	98.4	98.8	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	87.4	96.8	98.4	98.8	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   7440

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	49.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 20000	55.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000	55.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000	55.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000	56.2	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 12000	60.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 10000	66.0	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 9000	66.7	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 8000	67.8	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 7000	69.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 6000	70.7	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 5000	72.3	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4500	73.1	90.4	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 4000	74.7	92.1	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 3500	75.3	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3000	75.6	93.3	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 2500	75.6	93.7	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2000	75.7	94.2	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1800	76.4	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500	76.6	95.1	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	76.8	95.4	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1000	77.2	95.9	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900	77.2	96.0	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 800	77.3	96.4	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	77.3	96.4	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600	77.3	96.9	97.4	97.4	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 500	77.3	97.4	98.2	98.2	98.4	98.4	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	77.3	97.7	98.4	98.4	98.7	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	77.6	98.4	99.2	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	77.6	98.4	99.2	99.2	99.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	77.6	98.4	99.2	99.2	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	77.6	98.4	99.2	99.2	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	50.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9
	56.8	61.9	61.9	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1
≥ 18000 ≥ 16000	56.8	61.9	61.9	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1
	56.8	61.9	61.9	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1
≥ 14000 ≥ 12000	57.3	62.4	62.4	62.4	62.4	62.4	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7
	61.9	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3
≥ 10000 ≥ 9000	69.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8
	70.4	76.4	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7
≥ 8000 ≥ 7000	74.0	80.4	80.4	80.4	80.4	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7
	75.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 6000 ≥ 5000	77.2	84.9	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1
	79.0	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.9
≥ 4500 ≥ 4000	80.4	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8
	82.0	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4
≥ 3500 ≥ 3000	82.9	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3
	83.7	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.2
≥ 2500 ≥ 2000	84.2	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9
	84.4	93.1	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4
≥ 1800 ≥ 1500	84.6	93.3	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7
	85.0	94.1	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4
≥ 1200 ≥ 1000	85.0	94.6	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9
	85.1	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2
≥ 900 ≥ 800	85.2	95.1	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
	85.3	95.7	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
≥ 700 ≥ 600	85.6	96.1	96.3	96.3	96.3	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
	85.8	96.8	97.0	97.0	97.0	97.0	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.6
≥ 500 ≥ 400	85.8	97.1	97.3	97.3	97.3	97.3	97.7	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.1
	85.9	97.2	97.4	97.4	97.6	97.6	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.4
≥ 300 ≥ 200	86.2	98.1	98.3	98.3	98.4	98.4	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.4
	86.2	98.1	98.3	98.3	98.6	98.6	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.8	99.8	99.9
≥ 100 ≥ 0	86.2	98.1	98.3	98.3	98.6	98.6	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.8	99.8	100.0
	86.2	98.1	98.3	98.3	98.6	98.6	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5 16	≥⅛	≥0
NO CEILING	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 20000	60.4	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0
≥ 18000	60.6	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1
≥ 16000	60.6	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1
≥ 14000	61.0	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.6
≥ 12000	65.4	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0
≥ 10000	71.7	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4
≥ 9000	74.2	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.1
≥ 8000	77.8	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8
≥ 7000	79.0	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.0
≥ 6000	81.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8
≥ 5000	84.1	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.6
≥ 4500	85.1	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7
≥ 4000	87.6	89.4	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9
≥ 3500	88.9	90.8	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
≥ 3000	88.9	90.9	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4
≥ 2500	89.7	91.7	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4
≥ 2000	90.1	92.2	92.7	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0
≥ 1800	90.2	92.3	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1
≥ 1500	90.4	92.8	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8
≥ 1200	90.8	93.7	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9
≥ 1000	90.9	94.0	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.6
≥ 900	90.9	94.1	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7
≥ 800	90.9	94.4	95.0	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1
≥ 700	91.0	94.7	96.0	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8
≥ 600	91.3	95.2	96.7	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.6
≥ 500	91.4	95.3	96.8	97.2	97.7	97.7	97.8	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.2
≥ 400	91.7	95.6	97.0	97.6	98.0	98.0	98.1	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.6
≥ 300	91.9	95.9	97.4	98.1	98.7	98.7	98.9	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.4
≥ 200	91.9	96.0	97.6	98.2	98.8	98.8	99.1	99.1	99.2	99.4	99.6	99.6	99.6	99.6	99.7	100.0
≥ 100	91.9	96.0	97.6	98.2	98.8	98.8	99.1	99.1	99.2	99.4	99.6	99.6	99.6	99.6	99.7	100.0
≥ 0	91.9	96.0	97.6	98.2	98.8	98.8	99.1	99.1	99.2	99.4	99.6	99.6	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS LST

CEILING FEET	\.VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
	63.6	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000	63.8	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 16000	64.0	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 14000	65.1	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 12000	68.7	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 10000	74.3	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 9000	75.0	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 8000	77.2	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 7000	77.8	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 6000	79.9	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 5000	83.0	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 4500	84.3	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000	87.6	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	89.6	91.1	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 3000	90.2	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500	91.1	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2000	91.2	93.0	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	91.3	93.2	93.3	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500	92.0	94.6	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1200	92.4	95.4	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1000	93.0	96.0	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900	93.0	96.1	96.8	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800	93.3	96.7	97.3	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	93.6	97.1	97.8	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	93.7	97.6	98.2	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	93.7	97.6	98.2	98.6	98.9	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	93.7	97.6	98.2	98.6	98.9	99.0	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	93.7	97.7	98.3	98.9	99.2	99.3	99.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	93.7	97.7	98.3	98.9	99.2	99.3	99.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	93.7	97.7	98.3	98.9	99.2	99.3	99.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	93.7	97.7	98.3	98.9	99.2	99.3	99.3	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
≥ 20000	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 16000	61.4	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 14000	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 12000	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 10000	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 9000	71.1	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 8000	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 7000	75.3	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 6000	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	00.0	80.0
≥ 5000	83.8	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 4500	85.4	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 4000	89.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 3500	91.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 3000	92.2	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 2500	93.3	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	94.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800	94.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500	95.4	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	95.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000	96.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	96.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	96.0	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	96.0	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	96.0	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.1	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTRUM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥18000 ≥16000	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥14000 ≥12000	58.2	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥10000 ≥9000	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
	68.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥8000 ≥7000	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥6000 ≥5000	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	86.6	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥4500 ≥4000	87.3	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
	91.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥3500 ≥3000	92.6	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	93.6	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥2500 ≥2000	95.3	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
	96.0	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥1800 ≥1500	96.1	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	96.4	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥1200 ≥1000	97.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	97.0	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥900 ≥800	97.0	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700 ≥600	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500 ≥400	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300 ≥200	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100 ≥0	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5 16	≥¼	≥0
NO CEILING ≥20000	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
	56.4	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥18000 ≥16000	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥14000 ≥12000	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
	62.4	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥10000 ≥9000	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥8000 ≥7000	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
	78.3	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥6000 ≥5000	83.7	84.0	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
	88.2	88.8	88.9	89.0	89.3	89.3	89.3	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥4500 ≥4000	90.3	91.1	91.3	91.4	91.8	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	91.4	92.7	92.9	93.0	93.3	93.3	93.3	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥3500 ≥3000	92.4	93.8	94.2	94.3	94.7	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
	93.1	94.6	95.0	95.1	95.4	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥2500 ≥2000	94.0	95.6	96.0	96.1	96.6	96.6	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
	94.6	96.3	96.8	96.9	97.3	97.3	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥1800 ≥1500	94.7	96.4	96.9	97.0	97.4	97.4	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
	94.7	96.4	96.9	97.0	97.6	97.6	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥1200 ≥1000	94.9	97.0	97.4	97.8	98.4	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	94.9	97.0	97.9	98.2	98.9	98.9	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥900 ≥800	94.9	97.0	97.9	98.3	99.0	99.0	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
	94.9	97.0	97.9	98.3	99.0	99.0	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥700 ≥600	94.9	97.1	98.0	98.4	99.1	99.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	94.9	97.1	98.0	98.4	99.1	99.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥500 ≥400	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥300 ≥200	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥100 ≥0	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
	94.9	97.1	98.2	98.7	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC   FORM JUL 64   0-14-5 (OL A)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTRUM AFB MT/GREAT FALLS   68-77   JUN

STATION / STATION NAME / YEARS / MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 (HOURS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≤5/16	≥⅛	≥0
NO CEILING ≥20000	46.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
	54.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥18000 ≥16000	54.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
	54.4	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥14000 ≥12000	54.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
	59.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥10000 ≥9000	65.3	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
	66.4	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥8000 ≥7000	69.1	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
	70.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥6000 ≥5000	73.2	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
	75.2	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥4500 ≥4000	76.6	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
	77.9	93.2	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥3500 ≥3000	78.6	94.0	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	78.8	94.8	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥2500 ≥2000	79.2	95.4	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	79.6	96.0	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥1800 ≥1500	79.6	96.0	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
	79.7	96.1	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥1200 ≥1000	79.9	96.8	97.2	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	80.0	97.1	97.7	97.7	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥900 ≥800	80.1	97.2	97.8	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
	80.1	97.2	97.8	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥700 ≥600	80.3	97.7	98.4	98.4	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	80.3	97.7	98.4	98.4	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥500 ≥400	80.3	97.9	98.8	98.8	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	80.3	98.0	98.9	98.9	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥300 ≥200	80.3	98.2	99.1	99.1	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	80.3	98.2	99.1	99.1	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100 ≥0	80.3	98.2	99.1	99.1	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	80.3	98.2	99.1	99.1	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS EST

CEILING FEET	\u2265 10	\u2265 6	\u2265 5	\u2265 4	\u2265 3	\u2265 2½	\u2265 2	\u2265 1½	\u2265 1¼	\u2265 1	\u2265 ¾	\u2265 ½	\u2265 ⅜	\u2265 5/16	\u2265 ¼	< ¼
NO CEILING	48.4	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	57.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 18000	58.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 16000	58.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
≥ 14000	59.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.6
≥ 12000	63.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9
≥ 10000	69.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.
≥ 9000	70.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 8000	73.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7
≥ 7000	75.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7
≥ 6000	78.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000	81.5	86.8	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4500	82.8	88.4	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 4000	85.3	91.2	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.6
≥ 3500	86.5	92.5	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9
≥ 3000	87.0	93.2	93.4	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2500	87.8	94.2	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2000	88.3	94.9	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
≥ 1800	88.5	95.2	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1500	88.8	95.7	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 1200	89.1	96.4	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000	89.3	96.7	97.2	97.3	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	89.3	96.8	97.3	97.4	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	89.4	97.0	97.6	97.7	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	89.5	97.3	97.9	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	89.5	97.5	98.2	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8
≥ 500	89.6	97.7	98.4	98.6	98.8	98.9	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	89.6	97.8	98.5	98.7	99.0	99.0	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	89.7	98.1	98.8	99.0	99.3	99.4	99.5	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	89.7	98.1	98.8	99.0	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	100.0
≥ 100	89.7	98.1	98.8	99.0	99.4	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	89.7	98.1	98.8	99.0	99.4	99.4	99.6	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   7200

USAF ETAC FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 JUL
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	61.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
	66.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 18000 ≥ 16000	66.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
	66.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 14000 ≥ 12000	66.1	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
	69.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 10000 ≥ 9000	74.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
	74.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 8000 ≥ 7000	75.4	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	75.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 6000 ≥ 5000	76.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
	77.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 4500 ≥ 4000	77.3	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	78.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3500 ≥ 3000	78.2	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	78.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500 ≥ 2000	78.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	78.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800 ≥ 1500	78.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
	78.8	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200 ≥ 1000	78.8	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	78.8	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900 ≥ 800	78.8	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	78.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700 ≥ 600	78.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	79.0	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500 ≥ 400	79.0	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	79.0	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300 ≥ 200	79.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	79.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 JUL
STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥⅛	≥0
NO CEILING	62.9	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9
≥20000	70.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9
≥18000	70.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1
≥16000	70.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1
≥14000	71.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8
≥12000	75.3	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1
≥10000	80.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5
≥9000	80.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6
≥8000	81.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0
≥7000	82.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
≥6000	83.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0
≥5000	84.7	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6
≥4500	85.1	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1
≥4000	85.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3
≥3500	86.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5
≥3000	86.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥2500	86.2	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
≥2000	86.5	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥1800	86.6	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
≥1500	87.1	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥1200	87.2	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥1000	87.2	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥900	87.2	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥800	87.4	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥700	87.4	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥600	87.4	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥500	87.4	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥400	87.4	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥300	87.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥200	87.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥100	87.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥0	87.4	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUL

STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 18000 ≥ 16000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 14000 ≥ 12000	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 10000 ≥ 9000	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 8000 ≥ 7000	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 6000 ≥ 5000	92.2	92.6	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
	93.3	93.8	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4500 ≥ 4000	93.5	94.1	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
	94.5	95.2	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3500 ≥ 3000	94.8	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	94.9	95.6	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2500 ≥ 2000	95.1	95.7	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
	95.6	96.5	96.6	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800 ≥ 1500	95.7	96.6	96.7	96.8	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
	96.8	97.8	98.0	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200 ≥ 1000	97.0	98.4	98.5	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	97.3	98.7	98.8	99.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900 ≥ 800	97.3	98.8	98.9	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	97.3	98.8	98.9	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700 ≥ 600	97.3	98.8	98.9	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	97.3	98.8	98.9	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500 ≥ 400	97.3	98.8	98.9	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	97.3	98.8	98.9	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300 ≥ 200	97.3	98.8	98.9	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	97.3	98.8	98.9	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100 ≥ 0	97.3	98.8	98.9	99.4	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.3	98.8	98.9	99.4	99.7	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   YEARS   JUL

STATION   STATION NAME   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	>¼	>0
NO CEILING	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 20000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 18000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 16000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 14000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 12000	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 10000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 9000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 8000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 7000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 6000	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 5000	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 4500	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 4000	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3500	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2500	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 2000	97.2	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800	97.3	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500	98.3	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200	98.5	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	98.7	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	98.7	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	98.8	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	98.8	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	98.8	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	98.8	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	98.8	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 MALHSTROM AFB MT/GREAT FALLS 68-77 JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	>1	>¾	>½	≥⅜	≥5-16	≥¼	≥0
NO CEILING	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 20000	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 18000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 16000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 14000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 10000	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 9000	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 8000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 7000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 6000	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 5000	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1			94.1	94.1	94.1
≥ 4500	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8		94.8	94.8	94.8	94.8
≥ 4000	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 3500	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3000	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2500	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2000	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1500	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

CEILING VERSUS VISIBILITY

24112   MALHSTROM AFB MT/GREAT FALLS   68-77   JUL
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500~1700
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	>3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5 16	≥⅛	≥0
NO CEILING	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 20000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 18000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 16000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 14000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 12000	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 10000	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 9000	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 8000	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 7000	90.5	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 6000	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 5000	95.4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4500	95.8	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 4000	97.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 3500	98.1	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3000	98.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500	98.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000	98.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800	98.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500	98.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200	98.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	98.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	98.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.6	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77 YEARS   JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5·16	≥¼	≥0
NO CEILING	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 20000	72.9	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 18000	73.4	73.4	72.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 16000	73.5	73.5	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 14000	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 12000	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 10000	86.9	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 9000	88.2	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 8000	91.2	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 7000	92.0	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 6000	93.7	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 5000	96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 4500	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000	98.0	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3500	98.1	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 3000	98.1	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2500	98.2	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000	98.3	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	98.3	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500	98.3	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	98.3	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	98.3	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	98.3	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	98.3	98.9	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	98.3	98.9	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	98.3	98.9	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99	99.8	99.8	99.8	99.8
≥ 500	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0	100.0	100.0	100.0
≥ 400	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.5	99.1	99.5	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥⅛	≥0
NO CEILING	58.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000	64.3	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 18000	64.4	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 16000	64.5	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 14000	65.3	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 12000	67.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 10000	73.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 9000	74.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 8000	76.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 7000	77.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 6000	79.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 5000	80.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4500	80.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4000	81.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3500	82.2	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 3000	82.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2500	82.5	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2000	82.8	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800	82.8	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500	82.8	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	82.8	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	82.9	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	82.9	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	82.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	82.9	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	83.0	99.1	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	83.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	83.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	83.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	83.0	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	83.0	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	83.0	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUL   ALL
STATION   STATION NAME   YEARS   MONTH   HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING	65.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6
≥ 20000	72.9	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 18000	73.1	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 16000	73.1	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 14000	73.7	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	77.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 10000	82.8	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 9000	83.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 8000	85.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1
≥ 7000	86.3	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 6000	87.7	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 5000	89.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 4500	89.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4000	91.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 3500	91.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 3000	91.5	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2500	91.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	92.1	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	92.2	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500	92.5	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	92.6	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	92.7	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	92.7	99.2	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	92.7	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	92.7	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	92.8	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	92.8	99.4	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	92.8	99.4	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	92.8	99.4	99.6	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.8	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.8	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.8	99.4	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   7440

USAF ETAC   FORM JUL 64   0-14-5 (OL A)   PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 STATION   HALMSTROM AFB MT/GREAT FALLS (STATION NAME)   68-77 (YEARS)   AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS EST

CEILING FEET	\u2265 10	\u2265 6	\u2265 5	\u2265 4	\u2265 3	\u2265 2½	\u2265 2	\u2265 1½	\u2265 1¼	\u2265 1	\u2265 ¾	\u2265 ⅝	\u2265 ½	\u2265 5·16	\u2265 ¼	\u2265 0
NO CEILING	58.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000	59.6	76.8	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	74.8	76.8	76.8	76.8	76.8	76.9
≥ 18000	59.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9
≥ 16000	59.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1
≥ 14000	60.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1
≥ 12000	63.5	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5
≥ 10000	66.8	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5
≥ 9000	67.0	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8
≥ 8000	68.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1
≥ 7000	70.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.6
≥ 6000	70.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6
≥ 5000	72.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2
≥ 4500	73.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8
≥ 4000	74.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2
≥ 3500	75.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 3000	76.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
≥ 2500	76.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9
≥ 2000	76.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4
≥ 1800	76.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
≥ 1500	76.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1
≥ 1200	76.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3
≥ 1000	77.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
≥ 900	77.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
≥ 800	77.0	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0
≥ 700	77.0	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0
≥ 600	77.1	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 500	77.1	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 400	77.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 300	77.5	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 200	77.5	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 100	77.5	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 0	77.5	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION / STATION NAME / YEARS / MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	61.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 20000	65.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 18000	65.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 16000	65.6	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 14000	66.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	68.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 10000	72.0	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 9000	72.5	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 8000	73.4	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 7000	74.4	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 6000	75.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 5000	78.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4500	78.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	79.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3500	79.9	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 3000	80.4	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500	80.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2000	81.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800	81.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500	81.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	82.0	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000	82.0	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	82.0	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	82.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	82.0	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	82.4	98.3	98.7	98.8	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	82.4	98.5	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	82.4	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	82.4	98.6	99.0	99.1	99.4	99.4	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	82.4	98.6	99.0	99.2	99.5	99.5	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	82.4	98.6	99.0	99.2	99.5	99.5	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	82.4	98.6	99.0	99.2	99.5	99.5	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥ .	≥0
NO CEILING	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 20000	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.8
≥ 18000	73.2	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.9
≥ 16000	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.5
≥ 14000	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6
≥ 12000	79.0	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.7
≥ 10000	83.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.7
≥ 9000	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.5
≥ 8000	85.5	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.1
≥ 7000	87.0	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.7
≥ 6000	88.3	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.4
≥ 5000	90.3	91.1	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.5
≥ 4500	91.1	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.3
≥ 4000	92.0	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.2
≥ 3500	92.7	93.4	93.4	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.0
≥ 3000	93.1	94.1	94.2	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.8
≥ 2500	93.7	94.6	94.7	94.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.4
≥ 2000	94.3	95.5	95.6	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2
≥ 1800	94.3	95.5	95.8	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.5
≥ 1500	94.7	96.1	96.6	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.2
≥ 1200	95.5	96.9	97.3	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.0
≥ 1000	95.6	97.0	97.5	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2
≥ 900	95.6	97.2	97.7	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.4
≥ 800	95.6	97.2	97.8	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5
≥ 700	95.8	97.5	98.3	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9
≥ 600	95.9	97.6	98.5	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2
≥ 500	95.9	97.8	98.8	98.9	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7
≥ 400	95.9	97.8	98.8	98.9	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7
≥ 300	95.9	97.8	98.8	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 200	95.9	97.8	98.0	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 100	95.9	97.8	98.8	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 0	95.9	97.8	98.8	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   AUG

STATION / STATION NAME / YEARS / MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5-16	≥¼	≥0
NO CEILING ≥20000	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥18000 / ≥16000	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥14000 / ≥12000	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥10000 / ≥9000	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥8000 / ≥7000	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥6000 / ≥5000	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥4500 / ≥4000	91.5	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥3500 / ≥3000	92.0	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥2500 / ≥2000	92.9	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
	94.0	94.6	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥1800 / ≥1500	94.5	95.2	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
	95.4	96.0	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥1200 / ≥1000	95.9	96.9	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
	95.9	97.1	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥900 / ≥800	95.9	97.2	97.8	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
	96.2	97.5	98.2	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥700 / ≥600	96.6	98.0	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	96.7	98.2	99.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥500 / ≥400	96.7	98.3	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	96.7	98.4	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥300 / ≥200	96.7	98.4	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	96.7	98.4	99.2	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100 / ≥0	96.7	98.4	99.2	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	96.7	98.4	99.2	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   6B-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	64.4 72.2	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5	64.7 72.5
≥ 18000 ≥ 16000	72.4 72.8	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1	72.7 73.1
≥ 14000 ≥ 12000	74.3 78.7	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0	74.6 79.0
≥ 10000 ≥ 9000	83.5 84.1	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4	83.9 84.4
≥ 8000 ≥ 7000	86.5 86.9	86.8 87.2	86.8 87.2	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3	86.9 87.3
≥ 6000 ≥ 5000	88.4 89.9	88.7 90.3	88.7 90.3	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4	88.8 90.4
≥ 4500 ≥ 4000	91.3 92.7	91.7 93.1	91.7 93.1	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3	91.8 93.3
≥ 3500 ≥ 3000	93.1 93.9	93.5 94.3	93.5 94.3	93.8 94.5	93.8 94.5	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6	93.8 94.6
≥ 2500 ≥ 2000	94.7 95.2	95.2 95.9	95.2 96.0	95.4 96.2	95.4 96.2	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3	95.5 96.3
≥ 1800 ≥ 1500	95.2 95.5	95.9 96.3	96.0 96.5	96.2 96.8	96.2 96.8	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9	96.3 96.9
≥ 1200 ≥ 1000	95.7 96.0	97.0 97.7	97.2 98.0	97.5 98.3	97.6 98.4	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5	97.7 98.5
≥ 900 ≥ 800	96.0 96.2	97.7 98.1	98.0 98.5	98.3 98.8	98.4 98.9	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0	98.5 99.0
≥ 700 ≥ 600	96.6 96.6	98.5 98.5	98.9 98.9	99.2 99.2	99.4 99.4	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 500 ≥ 400	96.6 96.6	98.6 98.6	99.0 99.0	99.4 99.4	99.5 99.6	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7
≥ 300 ≥ 200	96.6 96.6	98.7 98.7	99.1 99.1	99.5 99.5	99.7 99.8	99.8 99.9	99.8 99.9	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0	99.8 100.0
≥ 100 ≥ 0	96.6 96.6	98.7 98.7	99.1 99.1	99.5 99.5	99.8 99.8	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 18000 ≥ 16000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 14000 ≥ 12000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 10000 ≥ 9000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 8000 ≥ 7000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 6000 ≥ 5000	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4500 ≥ 4000	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
	94.6	94.9	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3500 ≥ 3000	95.4	95.7	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
	95.6	96.0	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2500 ≥ 2000	96.2	96.9	97.1	97.2	97.4	97	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	96.5	97.3	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1800 ≥ 1500	96.6	97.4	97.6	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	96.8	97.7	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200 ≥ 1000	96.9	98.0	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	97.0	98.2	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900 ≥ 800	97.2	98.4	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	97.2	98.5	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700 ≥ 600	97.2	98.5	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	97.2	98.5	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500 ≥ 400	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300 ≥ 200	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
	97.3	98.7	99.1	99.5	99.8	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   FORM   JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥?	≥5/16	≥¼	≥0
NO CEILING	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 20000	68.7	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 18000	69.0	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 16000	70.0	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 14000	71.0	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 12000	75.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000	81.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 9000	81.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 8000	83.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 7000	84.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 6000	89.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 5000	91.9	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 4500	92.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 4000	94.0	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 3500	94.7	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3000	95.2	96.9	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2500	95.6	97.3	97.4	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000	95.6	97.7	98.0	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	95.8	98.0	98.2	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	96.2	98.5	98.7	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200	96.3	98.6	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	96.5	98.7	98.9	99.1	99.1	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	96.5	98.7	98.9	99.1	99.1	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	96.5	98.7	98.9	99.1	99.1	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.5	98.7	98.9	99.4	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	51.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
	54.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 18000 ≥ 16000	55.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
	55.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 14000 ≥ 12000	56.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
	59.9	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 10000 ≥ 9000	64.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
	65.6	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 8000 ≥ 7000	66.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	68.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 6000 ≥ 5000	71.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	73.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 4500 ≥ 4000	74.4	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
	75.8	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 3500 ≥ 3000	76.2	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
	76.3	96.9	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2500 ≥ 2000	76.6	97.2	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
	76.8	98.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800 ≥ 1500	76.9	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	77.0	98.7	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200 ≥ 1000	77.2	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	77.2	99.1	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900 ≥ 800	77.2	99.1	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	77.2	99.1	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700 ≥ 600	77.2	99.1	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	77.2	99.1	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500 ≥ 400	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	77.3	99.2	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL HOURS (S)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING	60.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 20000	67.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 18000	67.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 16000	67.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000	68.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000	72.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0
≥ 10000	77.1	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6
≥ 9000	77.7	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 8000	79.5	86.1	86.1	86.1	86.1	86.1	86.1	86 1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 7000	80.8	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 6000	82.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 5000	84.9	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4500	85.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 4000	86.9	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3500	87.5	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 3000	87.9	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2500	88.3	95.9	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 2000	88.8	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800	88.9	96.8	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3
≥ 1500	89.2	97.3	97.5	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200	89.5	97.8	98.0	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000	89.7	98.0	98.3	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
≥ 900	89.7	98.1	98.4	98.5	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	89.7	98.2	98.6	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	89.9	98.4	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	89.9	98.5	99.0	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 500	90.0	98.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 400	90.0	98.7	99.2	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
≥ 300	90.0	98.7	99.2	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	90.0	98.7	99.2	99.4	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	90.0	98.7	99.2	99.4	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	90.0	98.7	99.2	99.4	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   7440

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	52.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
	56.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥18000 ≥16000	56.8	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
	56.9	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥14000 ≥12000	57.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
	60.7	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥10000 ≥9000	64.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
	66.0	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥8000 ≥7000	68.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	69.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥6000 ≥5000	70.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
	72.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥4500 ≥4000	73.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
	73.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥3500 ≥3000	74.4	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
	74.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥2500 ≥2000	75.4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	76.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥1800 ≥1500	76.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
	76.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥1200 ≥1000	77.0	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
	77.8	97.2	97.4	97.4	97.6	97.6	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥900 ≥800	77.8	97.2	97.4	97.4	97.6	97.6	97.8	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
	77.8	97.2	97.4	97.4	97.6	97.6	97.8	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥700 ≥600	77.8	97.2	97.6	97.6	97.7	97.7	97.9	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2
	77.8	97.2	97.7	97.7	97.8	97.8	98.1	98.1	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥500 ≥400	77.8	97.2	97.7	97.7	97.9	98.1	98.4	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	77.8	97.3	97.8	97.8	98.0	98.2	98.8	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥300 ≥200	77.8	97.4	98.0	98.0	98.3	98.6	99.1	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	77.8	97.4	98.0	98.0	98.3	98.6	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100 ≥0	77.8	97.4	98.0	98.0	98.3	98.6	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	77.8	97.4	98.0	98.0	98.3	98.6	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LST

CEILING FEET	\u2265 10	\u2265 6	\u2265 5	\u2265 4	\u2265 3	\u2265 2½	\u2265 2	\u2265 1½	\u2265 1¼	\u2265 1	\u2265 ¾	\u2265 ½	\u2265 ⅜	\u2265 5 16	\u2265 ¼	\u2265 0
NO CEILING	53.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	65.7	66.7	66.7	66.7	66.7	66.7
≥ 20000	57.4	72.1	72.1	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 18000	57.4	72.1	72.1	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 16000	57.6	72.2	72.2	72.3	72.4	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 14000	58.0	72.8	72.8	72.9	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 12000	61.6	76.9	76.9	77.0	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3
≥ 10000	64.7	81.2	81.2	81.3	81.4	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7
≥ 9000	65.2	82.1	82.1	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6	82.6
≥ 8000	67.8	84.8	84.8	84.9	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2
≥ 7000	68.7	85.9	85.9	86.0	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3
≥ 6000	70.3	87.7	87.7	87.8	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1
≥ 5000	72.2	89.9	89.9	90.0	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4
≥ 4500	73.0	91.2	91.2	91.3	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8
≥ 4000	75.1	92.8	92.8	92.9	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3
≥ 3500	75.6	93.2	93.2	93.3	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8
≥ 3000	75.6	93.6	93.6	93.7	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1
≥ 2500	76.1	94.1	94.1	94.2	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.7	94.7
≥ 2000	77.2	95.3	95.3	95.4	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0
≥ 1800	77.2	95.3	95.3	95.4	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0
≥ 1500	77.4	95.7	95.7	95.8	96.1	96.1	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4
≥ 1200	77.4	95.9	95.9	96.0	96.3	96.3	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7
≥ 1000	77.7	96.3	96.4	96.6	96.9	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2
≥ 900	77.9	96.6	96.7	96.8	97.2	97.2	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 800	77.9	96.6	96.7	96.8	97.2	97.2	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.6	97.6	97.6
≥ 700	77.9	96.6	97.1	97.2	97.7	97.7	97.8	98.0	98.1	98.2	98.2	98.2	98.2	98.3	98.3	98.3
≥ 600	77.9	96.7	97.2	97.3	97.8	97.8	97.9	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4
≥ 500	77.9	96.7	97.4	97.6	98.0	98.1	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1
≥ 400	77.9	96.7	97.6	97.8	98.2	98.3	98.4	98.8	99.1	99.2	99.2	99.2	99.2	99.3	99.3	99.3
≥ 300	77.9	96.7	97.6	97.8	98.6	98.7	98.8	99.1	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0
≥ 200	77.9	96.7	97.6	97.8	98.6	98.7	98.8	99.1	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0
≥ 100	77.9	96.7	97.6	97.8	98.6	98.7	98.8	99.1	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0
≥ 0	77.9	96.7	97.6	97.8	98.6	98.7	98.8	99.1	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC   FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 18000 ≥ 16000	66.3	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 14000 ≥ 12000	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 10000 ≥ 9000	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2
≥ 8000 ≥ 7000	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4
	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3
≥ 6000 ≥ 5000	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4
	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3
≥ 4500 ≥ 4000	87.8	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4
	89.1	89.9	90.0	90.0	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3
≥ 3500 ≥ 3000	90.0	90.9	91.0	91.0	91.0	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3
	90.4	91.6	91.7	91.7	91.7	91.8	91.8	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0
≥ 2500 ≥ 2000	91.1	92.3	92.4	92.4	92.6	92.8	92.8	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0
	92.1	94.0	94.1	94.1	94.3	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8
≥ 1800 ≥ 1500	92.3	94.2	94.4	94.4	94.7	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1
	92.4	94.3	94.6	94.6	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2
≥ 1200 ≥ 1000	92.9	95.0	95.2	95.2	95.4	95.7	95.7	95.8	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0
	93.1	95.2	95.4	95.6	95.8	96.0	96.0	96.1	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4
≥ 900 ≥ 800	93.3	95.4	95.7	95.8	96.1	96.3	96.3	96.4	96.7	96.7	96.7	96.7	96.8	96.8	96.8	96.8
	93.6	95.8	96.0	96.1	96.4	96.7	96.8	97.0	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3
≥ 700 ≥ 600	93.6	96.2	96.4	96.6	97.0	97.2	97.3	97.6	97.8	97.8	97.9	98.0	98.1	98.1	98.1	98.1
	93.7	96.3	96.6	96.7	97.1	97.3	97.6	97.9	98.1	98.1	98.2	98.3	98.4	98.4	98.4	98.4
≥ 500 ≥ 400	93.8	96.7	96.9	97.0	97.4	97.7	97.9	98.3	98.6	98.6	98.7	98.8	98.9	98.9	98.9	98.9
	93.8	96.7	96.9	97.0	97.6	97.8	98.0	98.4	98.7	98.7	98.8	98.9	99.0	99.0	99.0	99.0
≥ 300 ≥ 200	93.8	96.7	96.9	97.1	97.8	98.0	98.2	98.9	99.1	99.3	99.4	99.6	99.8	99.8	99.8	99.9
	93.8	96.7	96.9	97.1	97.8	98.0	98.2	98.9	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0
≥ 100 ≥ 0	93.8	96.7	96.9	97.1	97.8	98.0	98.2	98.9	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0
	93.8	96.7	96.9	97.1	97.8	98.0	98.2	98.9	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 SEP
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 20000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 18000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 14000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 12000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 10000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 9000	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 8000	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 7000	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 6000	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 5000	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 4500	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 4000	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 3500	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3000	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500	91.1	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	91.9	92.8	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1800	92.3	93.2	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1500	93.6	94.9	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	94.2	95.8	96.2	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	94.8	96.7	97.1	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	94.8	96.7	97.1	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	95.0	97.0	97.4	97.4	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	95.0	97.1	97.6	97.6	98.1	98.1	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	95.0	97.2	97.7	97.7	98.3	98.3	98.3	98.3	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	95.0	97.4	97.9	97.9	98.6	98.6	98.7	98.8	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	95.0	97.4	98.0	98.0	98.7	98.7	98.9	99.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	95.0	97.6	98.1	98.1	98.8	98.8	99.1	99.2	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.0	97.6	98.1	98.1	98.8	98.8	99.1	99.2	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.0	97.6	98.1	98.1	98.8	98.8	99.1	99.2	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.0	97.6	98.1	98.1	98.8	98.8	99.1	99.2	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP

STATION / STATION NAME / YEARS / MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 18000 ≥ 16000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 14000 ≥ 12000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000 ≥ 9000	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 8000 ≥ 7000	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 6000 ≥ 5000	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 4500 ≥ 4000	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3500 ≥ 3000	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
	90.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2500 ≥ 2000	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
	93.9	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1800 ≥ 1500	94.0	94.7	94.8	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
	95.3	96.0	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1200 ≥ 1000	96.0	96.8	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	96.7	97.6	97.9	98.1	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900 ≥ 800	96.9	97.7	98.0	98.2	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	97.1	98.3	98.7	98.9	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700 ≥ 600	97.1	98.3	98.8	99.0	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	97.1	98.3	98.8	99.0	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500 ≥ 400	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300 ≥ 200	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100 ≥ 0	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0
	97.1	98.3	98.8	99.0	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   900

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

<u>24112</u> MALMSTROM AFB MT/GREAT FALLS   <u>68-77</u>   <u>SEP</u>
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

<u>1500-1700</u>
HOURS CST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5-16	≥¼	≥0
NO CEILING ≥ 20000	53.2 64.8	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9	53.3 64.9
≥ 18000 ≥ 16000	65.1 65.2	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3	65.2 65.3
≥ 14000 ≥ 12000	66.3 72.2	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3	66.4 72.3
≥ 10000 ≥ 9000	76.7 77.1	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2	76.8 77.2
≥ 8000 ≥ 7000	79.2 80.7	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9	79.3 80.9
≥ 6000 ≥ 5000	84.3 88.3	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7	84.7 88.7
≥ 4500 ≥ 4000	89.8 90.9	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3	90.1 91.3
≥ 3500 ≥ 3000	91.9 93.4	92.3 94.1	92.3 94.1	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2	92.3 94.2
≥ 2500 ≥ 2000	95.3 96.1	96.0 96.9	96.0 96.9	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0	96.1 97.0
≥ 1800 ≥ 1500	96.4 97.0	97.3 97.9	97.3 97.9	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0	97.4 98.0
≥ 1200 ≥ 1000	97.4 97.4	98.3 98.3	98.3 98.3	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4	98.4 98.4
≥ 900 ≥ 800	97.9 98.0	98.8 98.9	98.8 98.9	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0
≥ 700 ≥ 600	98.0 98.0	99.0 99.0	99.0 99.0	99.2 99.2	99.3 99.3	99.3 99.3	99.3 99.3	99.4 99.6	99.4 99.6	99.4 99.6	99.4 99.6	99.4 99.6	99.6 99.6	99.6 99.6	99.6 99.6	99.6 99.6
≥ 500 ≥ 400	98.0 98.0	99.0 99.0	99.0 99.0	99.2 99.2	99.4 99.4	99.6 99.6	99.4 99.6	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9	99.8 99.9
≥ 300 ≥ 200	98.0 98.0	99.0 99.0	99.0 99.0	99.2 99.2	99.4 99.4	99.6 99.6	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 100.0	99.9 100.0	99.9 100.0	99.9 100.0
≥ 100 ≥ 0	98.0 98.0	99.0 99.0	99.0 99.0	99.2 99.2	99.4 99.4	99.6 99.6	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS   900

USAF ETAC   FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 SEP

STATION · STATION NAME · YEARS · MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (SR)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	56.1	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
	62.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥18000 ≥16000	62.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
	62.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥14000 ≥12000	62.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
	67.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥10000 ≥9000	70.7	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
	72.1	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥8000 ≥7000	74.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
	75.6	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥6000 ≥5000	78.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
	81.8	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥4500 ≥4000	83.4	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
	84.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥3500 ≥3000	85.3	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
	85.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥2500 ≥2000	87.1	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
	88.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥1800 ≥1500	88.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
	89.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥1200 ≥1000	89.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	89.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥900 ≥800	89.4	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
	89.4	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥700 ≥600	89.4	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	89.4	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥500 ≥400	89.4	98.8	99.1	99.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	89.4	98.8	99.1	99.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥300 ≥200	89.4	98.8	99.1	99.2	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8
	89.4	98.8	99.1	99.2	99.4	99.4	99.6	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥100 ≥0	89.4	98.8	99.1	99.2	99.4	99.4	99.6	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0
	89.4	98.8	99.1	99.2	99.4	99.4	99.6	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	52.6	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 20000	56.8	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000	57.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 16000	57.2	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 14000	57.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 12000	60.1	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 10000	64.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 9000	65.2	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 8000	66.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 7000	67.2	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 6000	69.2	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 5000	71.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 4500	73.0	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 4000	73.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3500	74.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.3	93.8	93.8	93.8	93.8
≥ 3000	75.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 2500	75.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2000	77.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800	77.4	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	77.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1200	77.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	78.2	98.4	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	78.2	98.4	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	78.2	98.4	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	78.2	98.4	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	78.2	98.4	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	78.2	98.7	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	78.2	98.7	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	78.2	98.7	99.1	99.1	99.1	99.1	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	78.2	98.7	99.1	99.2	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	78.2	98.7	99.1	99.2	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	78.2	98.7	99.1	99.2	99.3	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS ALL

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING	55.5	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 20000	62.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 18000	62.4	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000	62.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 14000	63.3	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 12000	67.3	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 10000	71.9	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000	72.9	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 8000	75.0	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 7000	76.3	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3
≥ 6000	78.6	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6
≥ 5000	80.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4500	82.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3
≥ 4000	83.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5
≥ 3500	84.0	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4
≥ 3000	84.6	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1
≥ 2500	85.6	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000	86.6	95.3	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7
≥ 1800	86.8	95.6	95.7	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1500	87.4	96.3	96.4	96.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200	87.8	96.8	97.0	97.0	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	88.1	97.3	97.5	97.6	97.8	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	88.3	97.4	97.6	97.7	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2
≥ 800	88.4	97.6	97.9	97.9	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5
≥ 700	88.4	97.7	98.0	98.1	98.4	98.4	98.5	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	88.4	97.8	98.1	98.2	98.5	98.5	98.6	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	88.4	97.8	98.2	98.3	98.7	98.8	98.9	99.1	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
≥ 400	88.4	97.9	98.3	98.4	98.7	98.8	99.0	99.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	88.4	97.9	98.3	98.4	98.9	99.0	99.2	99.5	99.6	99.7	99.8	99.8	99.8	99.9	99.9	99.9
≥ 200	88.4	97.9	98.3	98.5	98.9	99.0	99.2	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0
≥ 100	88.4	97.9	98.3	98.5	98.9	99.0	99.2	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0
≥ 0	88.4	97.9	98.3	98.5	98.9	99.0	99.2	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   7200

CEILING VERSUS VISIBILITY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — OCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200 HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	51.3	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.3
≥ 20000	58.0	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.2
≥ 18000	58.0	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.2
≥ 16000	58.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.4
≥ 14000	58.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.7
≥ 12000	62.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.5
≥ 10000	66.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.4
≥ 9000	66.5	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.7
≥ 8000	67.0	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.5
≥ 7000	67.5	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5
≥ 6000	69.4	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.8
≥ 5000	69.9	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.7
≥ 4500	70.5	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.7
≥ 4000	71.0	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.5
≥ 3500	71.1	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.8
≥ 3000	71.4	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.5
≥ 2500	71.8	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.5
≥ 2000	72.5	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.9
≥ 1800	72.5	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.9
≥ 1500	72.7	91.9	92.7	92.7	92.7	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.1
≥ 1200	72.7	92.8	93.5	93.7	93.8	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.2
≥ 1000	72.7	93.2	94.0	94.2	94.3	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 900	72.9	93.4	94.2	94.4	94.5	94.6	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.9
≥ 800	72.9	93.4	94.3	94.5	94.6	94.7	94.8	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4
≥ 700	72.9	93.7	94.5	94.7	94.8	94.9	95.1	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.6
≥ 600	72.9	94.0	94.8	95.2	95.4	95.6	95.7	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 500	72.9	94.2	95.1	95.4	95.7	95.9	96.0	96.6	96.6	97.0	97.1	97.1	97.1	97.1	97.1	97.2
≥ 400	72.9	94.3	95.2	95.5	95.9	96.1	96.5	97.1	97.2	97.7	97.8	97.8	97.8	97.8	97.8	98.0
≥ 300	72.9	94.5	95.4	95.7	96.6	96.8	97.2	98.0	98.2	98.7	98.8	98.9	98.9	98.9	98.9	99.0
≥ 200	72.9	94.5	95.6	95.9	96.9	97.1	97.5	98.3	98.5	99.0	99.1	99.2	99.2	99.2	99.2	99.4
≥ 100	72.9	94.5	95.7	96.0	97.0	97.5	98.1	98.8	99.0	99.6	99.7	99.8	99.8	99.8	99.8	100.0
≥ 0	72.9	94.5	95.7	96.0	97.0	97.5	98.1	98.8	99.0	99.6	99.7	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77   YEARS   OCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS (LST)

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥20000	51.6	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
	57.7	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥18000 ≥16000	57.7	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
	57.7	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥14000 ≥12000	58.1	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
	61.0	74.9	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥10000 ≥9000	64.6	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
	65.1	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6
≥8000 ≥7000	65.6	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.8	80.8
	66.3	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.5	81.5
≥6000 ≥5000	68.3	83.5	83.5	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.9	83.9
	69.7	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.4	85.4
≥4500 ≥4000	70.2	86.2	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.7	86.7
	71.2	88.2	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.5	88.6	88.6
≥3500 ≥3000	71.2	88.2	88.3	88.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.7	88.7
	71.5	88.9	89.0	89.0	89.0	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.5	89.5
≥2500 ≥2000	71.7	89.4	89.5	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.9	89.9
	71.8	89.5	89.6	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.2	90.2
≥1800 ≥1500	71.9	89.7	89.8	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.4	90.4
	72.5	90.8	91.0	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.6	91.6
≥1200 ≥1000	73.0	91.7	92.2	92.4	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.1	93.1
	73.0	92.3	92.7	93.0	93.5	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.2	94.2
≥900 ≥800	73.2	92.7	93.2	93.5	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.7	94.7
	73.3	92.8	93.3	93.7	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.8	94.8
≥700 ≥600	73.3	93.1	94.0	94.3	95.1	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.8	95.8
	73.5	93.7	94.5	94.9	95.7	96.0	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.8	96.8
≥500 ≥400	73.5	93.7	94.5	94.9	95.7	96.1	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.9	97.0	97.0
	73.5	93.9	94.8	95.4	96.2	96.8	97.1	97.5	97.8	97.8	97.8	97.8	97.8	98.0	98.1	98.2
≥300 ≥200	73.5	93.9	95.1	95.6	96.7	97.2	97.8	98.3	98.6	98.6	98.6	98.6	98.7	98.8	98.9	99.0
	73.5	93.9	95.1	95.6	9?.7	97.2	97.8	98.4	98.7	98.7	98.7	98.7	98.8	99.0	99.1	99.4
≥100 ≥0	73.5	93.9	95.1	95.6	96.7	97.2	97.8	98.4	98.7	98.8	98.8	98.8	99.0	99.2	99.4	99.9
	73.5	93.9	95.1	95.6	96.7	97.2	97.8	98.4	98.7	98.8	98.8	98.8	99.0	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 STATION MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77 YEARS   OCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800 HOURS (S)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5 16	≥¼	≥0
NO CEILING	57.0	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.2
≥ 20000	62.8	66.0	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.5	66.5	66.5	66.6
≥ 18000	62.8	66.0	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.5	66.5	66.5	66.6
≥ 16000	62.9	66.1	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.6	66.6	66.6	66.7
≥ 14000	63.5	66.9	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.3	67.4
≥ 12000	67.7	71.3	71.3	71.4	71.5	71.5	71.5	71.5	71.5	71.7	71.7	71.7	71.8	71.8	71.8	71.9
≥ 10000	72.4	76.1	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.6	76.6	76.6	76.7	76.7	76.7	76.8
≥ 9000	73.0	76.8	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.2	77.2	77.2	77.3	77.3	77.3	77.4
≥ 8000	75.1	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.4	79.4	79.4	79.5	79.5	79.5	79.6
≥ 7000	76.7	80.5	80.5	80.6	80.8	80.8	80.8	80.8	80.8	81.0	81.0	81.0	81.1	81.1	81.1	81.2
≥ 6000	77.8	81.7	81.8	81.9	82.0	82.0	82.0	82.0	82.0	82.3	82.3	82.3	82.4	82.4	82.4	82.5
≥ 5000	79.0	83.0	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.7	83.7	83.7	83.8	83.8	83.8	83.9
≥ 4500	80.0	84.6	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.3	85.3	85.3	85.4	85.4	85.4	85.5
≥ 4000	80.9	85.9	86.1	86.5	86.6	86.6	86.6	86.6	86.6	86.8	86.8	86.8	86.9	86.9	86.9	87.0
≥ 3500	81.5	86.7	86.9	87.2	87.3	87.3	87.3	87.3	87.3	87.5	87.5	87.5	87.6	87.6	87.6	87.7
≥ 3000	82.2	87.5	87.7	88.1	88.2	88.2	88.2	88.2	88.2	88.4	88.4	88.4	88.5	88.5	88.5	88.6
≥ 2500	82.8	88.5	88.7	89.0	89.1	89.1	89.1	89.1	89.1	89.4	89.4	89.4	89.5	89.5	89.5	89.6
≥ 2000	83.3	89.1	89.4	89.7	89.8	89.8	89.8	89.9	89.9	90.1	90.1	90.1	90.2	90.2	90.2	90.3
≥ 1800	83.3	89.1	89.4	89.7	89.8	89.8	89.8	89.9	89.9	90.1	90.1	90.1	90.2	90.2	90.2	90.3
≥ 1500	84.0	89.9	90.1	90.5	90.6	90.6	90.8	90.9	90.9	91.1	91.1	91.1	91.2	91.2	91.2	91.3
≥ 1200	84.8	91.2	91.4	91.8	92.0	92.0	92.2	92.4	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.8
≥ 1000	85.2	91.6	91.8	92.3	92.5	92.6	92.9	93.2	93.2	93.5	93.5	93.5	93.7	93.7	93.7	93.8
≥ 900	85.4	91.9	92.2	92.6	92.8	92.9	93.2	93.5	93.5	93.9	93.9	93.9	94.0	94.0	94.0	94.1
≥ 800	85.5	92.3	92.5	92.9	93.1	93.2	93.5	93.9	93.9	94.2	94.3	94.3	94.4	94.4	94.4	94.5
≥ 700	85.8	93.0	93.4	93.9	94.1	94.2	94.5	94.9	94.9	95.5	95.6	95.6	95.7	95.7	95.7	95.8
≥ 600	85.9	93.2	93.7	94.1	94.4	94.5	94.8	95.3	95.3	95.8	95.9	95.9	96.0	96.0	96.0	96.1
≥ 500	85.9	93.3	94.0	94.4	94.7	95.1	95.4	95.9	95.9	96.5	96.6	96.6	96.8	96.8	96.8	96.9
≥ 400	85.9	93.3	94.1	94.5	94.8	95.4	95.7	96.5	96.6	97.6	97.7	97.7	98.1	98.1	98.1	98.2
≥ 300	85.9	93.3	94.1	94.5	94.9	95.6	96.0	96.8	96.9	98.0	98.1	98.1	98.4	98.4	98.4	98.6
≥ 200	85.9	93.3	94.1	94.5	95.1	95.8	96.2	97.1	97.2	98.3	98.5	98.6	99.2	99.2	99.2	99.5
≥ 100	85.9	93.3	94.1	94.5	95.1	95.8	96.3	97.3	97.4	98.5	98.7	98.8	99.6	99.6	99.7	100.0
≥ 0	85.9	93.3	94.1	94.5	95.1	95.8	96.3	97.3	97.4	98.5	98.7	98.8	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5
	63.7	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000 ≥ 16000	63.8	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1
	64.2	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000 ≥ 12000	67.0	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3
	72.8	72.9	73.0	73.0	73.1	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 10000 ≥ 9000	78.2	78.3	78.4	78.4	78.5	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	79.2	79.4	79.5	79.5	79.6	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 8000 ≥ 7000	81.4	81.5	81.6	81.6	81.7	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
	82.8	82.9	83.0	83.0	83.1	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000 ≥ 5000	84.0	84.1	84.2	84.2	84.3	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5
	84.6	84.7	84.8	84.8	84.9	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4500 ≥ 4000	85.3	85.5	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
	86.2	86.7	86.9	86.9	87.0	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 3500 ≥ 3000	87.0	87.5	87.7	87.7	87.8	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
	87.3	88.0	88.2	88.2	88.3	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500 ≥ 2000	87.4	88.2	88.4	88.4	88.5	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
	88.6	89.8	90.0	90.0	90.2	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1800 ≥ 1500	88.7	89.9	90.1	90.1	90.3	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
	89.5	91.4	91.7	91.7	91.9	92.2	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1200 ≥ 1000	90.0	92.5	92.8	92.8	93.0	93.2	93.2	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
	90.3	93.1	93.5	93.5	93.8	94.0	94.0	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 900 ≥ 800	90.3	93.2	93.7	93.7	94.0	94.3	94.3	94.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1
	90.6	93.7	94.1	94.1	94.4	94.7	94.7	95.3	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 700 ≥ 600	90.8	94.1	94.6	94.6	94.9	95.3	95.3	95.8	96.1	56.3	96.3	96.3	96.3	96.3	96.3	96.3
	91.0	94.3	94.8	94.8	95.2	95.5	95.5	96.1	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9
≥ 500 ≥ 400	91.0	94.6	95.2	95.2	95.5	95.8	95.8	96.6	97.0	97.3	97.3	97.4	97.4	97.4	97.4	97.4
	91.0	94.6	95.4	95.4	95.8	96.1	96.3	97.2	97.7	98.2	98.2	98.3	98.4	98.4	98.4	98.4
≥ 300 ≥ 200	91.0	94.6	95.4	95.4	96.1	96.6	96.9	97.7	98.3	98.8	98.8	98.9	99.0	99.1	99.2	99.2
	91.0	94.6	95.4	95.4	96.1	96.6	96.9	97.7	98.3	98.8	98.8	98.9	99.1	99.2	99.4	99.5
≥ 100 ≥ 0	91.0	94.6	95.4	95.4	96.1	96.6	96.9	97.7	98.3	98.9	98.9	99.1	99.5	99.6	99.9	100.0
	91.0	94.6	95.4	95.4	96.1	96.6	96.9	97.7	98.3	98.9	98.9	99.1	99.5	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   UCT
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 18000	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 16000	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 14000	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 12000	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 10000	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 9000	77.2	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 8000	79.9	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 7000	80.8	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 6000	82.2	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 5000	83.8	83.9	83.9	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4500	84.7	84.8	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4000	87.4	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500	87.8	88.2	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000	88.7	89.2	89.2	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500	89.8	90.3	90.3	90.4	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 2000	90.8	91.6	91.6	91.7	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	91.0	91.9	91.9	92.0	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1500	92.2	93.8	93.9	94.1	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1200	92.4	94.0	94.3	94.5	95.1	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1000	92.7	94.4	94.7	94.9	95.7	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	92.8	94.5	94.9	95.2	96.0	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 800	92.9	94.7	95.2	95.4	96.2	96.3	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700	92.9	95.2	95.7	95.9	96.8	97.0	97.1	97.3	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7
≥ 600	92.9	95.2	95.7	96.0	97.0	97.2	97.4	97.6	97.8	98.0	98.1	98.2	98.2	98.2	98.2	98.2
≥ 500	92.9	95.4	95.9	96.5	97.5	97.7	98.1	98.3	98.5	98.6	98.7	98.8	98.8	98.8	98.8	98.8
≥ 400	92.9	95.4	95.9	96.5	97.6	98.0	98.3	98.5	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0
≥ 300	92.9	95.5	96.0	96.6	97.7	98.2	98.7	98.9	99.2	99.4	99.5	99.6	99.6	99.6	99.6	99.6
≥ 200	92.9	95.5	96.0	96.6	97.8	98.3	98.9	99.1	99.5	99.7	99.8	99.9	99.9	100.0	100.0	100.0
≥ 100	92.9	95.5	96.0	96.6	97.8	98.3	98.9	99.1	99.5	99.7	99.8	99.9	99.9	100.0	100.0	100.0
≥ 0	92.9	95.5	96.0	96.6	97.8	98.3	98.9	99.1	99.5	99.7	99.8	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC   FORM JUL 64   0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	49.6	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 18000	62.0	62.0	62.0	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 16000	62.5	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 12000	68.5	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 10000	74.2	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 9000	75.1	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 8000	78.6	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 7000	80.1	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 6000	83.2	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 5000	85.1	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 4500	85.8	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 4000	88.2	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3500	89.0	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000	90.3	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500	91.2	92.8	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 2000	91.7	93.5	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1800	91.9	93.9	93.9	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1500	92.5	94.9	95.2	95.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200	92.7	95.4	95.6	95.7	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000	92.9	95.8	96.0	96.1	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.9	97.0	97.0	97.0	97.0
≥ 900	92.9	95.8	96.0	96.1	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.9	97.0	97.0	97.0	97.0
≥ 800	92.9	95.8	96.0	96.1	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.9	97.0	97.0	97.0	97.0
≥ 700	92.9	96.1	96.3	96.5	97.0	97.1	97.2	97.3	97.3	97.4	97.4	97.5	97.6	97.6	97.6	97.6
≥ 600	92.9	96.2	96.6	96.7	97.2	97.3	97.5	97.6	97.7	98.1	98.1	98.2	98.3	98.3	98.3	98.3
≥ 500	93.1	96.8	97.1	97.2	97.8	98.0	98.2	98.3	98.4	98.8	98.8	99.0	99.1	99.1	99.1	99.1
≥ 400	93.1	96.8	97.1	97.4	98.1	98.2	98.4	98.6	98.7	99.1	99.1	99.4	99.5	99.5	99.5	99.5
≥ 300	93.1	96.8	97.2	97.5	98.2	98.3	98.5	98.7	98.9	99.4	99.4	99.6	99.7	99.8	99.8	99.8
≥ 200	93.1	96.8	97.2	97.5	98.2	98.3	98.5	98.7	99.1	99.6	99.6	99.8	99.9	100.0	100.0	100.0
≥ 100	93.1	96.8	97.2	97.5	98.2	98.3	98.5	98.7	99.1	99.6	99.6	99.8	99.9	100.0	100.0	100.0
≥ 0	93.1	96.8	97.2	97.5	98.2	98.3	98.5	98.7	99.1	99.6	99.6	99.8	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
        JUL 64

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS EST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING	48.0	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 20000	55.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 18000	55.5	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000	55.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 14000	57.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 12000	61.4	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 10000	67.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 9000	68.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 8000	70.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 7000	71.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 6000	73.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 5000	74.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4500	75.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 4000	75.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500	75.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000	76.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2500	77.1	91.5	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2000	78.4	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1800	78.5	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500	78.7	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	78.8	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1000	78.9	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	78.9	95.7	95.8	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥ 800	78.9	95.7	95.9	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6
≥ 700	79.0	96.2	96.5	96.7	96.9	97.0	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	79.1	96.7	96.9	97.1	97.3	97.4	97.4	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500	79.1	96.8	97.0	97.3	97.5	97.6	97.7	98.0	98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5
≥ 400	79.1	96.9	97.1	97.5	98.0	98.1	98.2	98.4	98.4	98.6	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	79.1	96.9	97.1	97.6	98.3	98.4	98.7	99.0	99.0	99.2	99.6	99.6	99.6	99.7	99.7	99.7
≥ 200	79.1	96.9	97.1	97.6	98.4	98.5	98.9	99.2	99.2	99.5	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	79.1	96.9	97.1	97.6	98.4	98.5	98.9	99.2	99.2	99.5	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	79.1	96.9	97.1	97.6	98.4	98.5	98.9	99.2	99.2	99.5	99.9	99.9	99.9	100.0	100.0	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥½	≥5/16	≥¼	≥0
NO CEILING	48.6	58.5	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	55.7	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 18000	55.9	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000	55.9	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 14000	56.5	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 12000	59.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 10000	64.6	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 9000	65.9	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000	66.9	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 7000	67.7	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 6000	69.2	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 5000	69.6	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4500	70.1	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4000	71.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3500	71.2	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 3000	71.9	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2500	72.0	89.9	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2000	72.4	91.1	91.1	91.2	91.5	91.6	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1800	72.6	91.3	91.3	91.4	91.7	91.8	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	72.6	91.6	91.6	91.7	92.2	92.3	92.4	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200	72.8	92.5	92.5	92.6	93.0	93.1	93.2	93.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	72.8	92.9	93.0	93.1	93.8	93.9	94.1	94.2	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 900	72.8	93.0	93.1	93.2	93.9	94.0	94.2	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 800	72.8	93.2	93.3	93.4	94.1	94.2	94.4	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	72.8	93.8	93.9	94.0	94.7	94.8	95.1	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 600	72.8	94.1	94.2	94.4	95.2	95.3	95.5	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 500	72.8	94.3	94.4	94.6	95.4	95.5	95.9	96.6	96.7	97.2	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	72.8	94.3	94.4	94.6	95.4	95.5	96.0	96.8	96.9	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 300	72.8	94.7	94.8	95.1	96.1	96.2	96.8	97.5	97.8	98.6	98.7	98.8	99.0	99.1	99.1	99.1
≥ 200	72.8	94.7	94.8	95.1	96.1	96.2	96.8	97.6	98.1	98.8	98.9	99.0	99.2	99.4	99.4	99.5
≥ 100	72.8	94.7	94.8	95.1	96.1	96.2	96.8	97.7	98.2	99.0	99.1	99.2	99.5	99.6	99.6	99.8
≥ 0	72.8	94.7	94.8	95.1	96.1	96.2	96.8	97.7	98.2	99.0	99.1	99.2	99.5	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	51.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6
	59.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 18000 ≥ 16000	59.9	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.7
	60.2	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 14000 ≥ 12000	61.5	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3
	65.5	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 10000 ≥ 9000	70.4	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9
	71.2	78.4	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7
≥ 8000 ≥ 7000	73.1	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
	74.2	81.8	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1
≥ 6000 ≥ 5000	75.9	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.1
	77.0	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.5
≥ 4500 ≥ 4000	77.7	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.6
	78.9	87.8	87.8	87.9	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3500 ≥ 3000	79.3	88.5	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.9
	80.0	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.8
≥ 2500 ≥ 2000	80.5	90.1	90.2	90.3	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.6
	81.2	91.2	91.3	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8
≥ 1800 ≥ 1500	81.3	91.4	91.5	91.6	91.7	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0
	81.8	92.4	92.6	92.7	92.9	92.9	93.0	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200 ≥ 1000	82.2	93.1	93.4	93.6	93.8	93.9	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
	82.3	93.6	94.0	94.1	94.5	94.6	94.7	94.9	94.9	95.0	95.0	95.0	95.1	95.1	95.1	95.1
≥ 900 ≥ 800	82.4	93.8	94.1	94.3	94.8	94.9	95.0	95.1	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.4
	82.5	94.0	94.3	94.5	94.9	95.1	95.2	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7
≥ 700 ≥ 600	82.6	94.4	94.9	95.1	95.5	95.7	95.8	96.1	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.5
	82.6	94.7	95.1	95.4	95.9	96.1	96.3	96.6	96.7	96.9	96.9	97.0	97.0	97.0	97.0	97.1
≥ 500 ≥ 400	82.7	94.9	95.4	95.7	96.2	96.5	96.7	97.1	97.2	97.5	97.6	97.7	97.7	97.7	97.8	97.8
	82.7	94.9	95.5	95.8	96.5	96.8	97.1	97.6	97.8	98.2	98.3	98.3	98.4	98.4	98.4	98.5
≥ 300 ≥ 200	82.7	95.0	95.6	96.0	96.8	97.2	97.6	98.1	98.4	98.8	98.9	99.0	99.1	99.2	99.2	99.3
	82.7	95.0	95.7	96.0	96.9	97.2	97.7	98.3	98.6	99.0	99.2	99.3	99.4	99.5	99.5	99.6
≥ 100 ≥ 0	82.7	95.0	95.7	96.0	96.9	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.8	100.0
	82.7	95.0	95.7	96.0	96.9	97.3	97.8	98.4	98.7	99.2	99.3	99.4	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS   7440

CEILING VERSUS VISIBILITY

24113   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	41.6	52.8	53.0	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
	47.9	61.1	61.3	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 18000 ≥ 16000	48.0	61.4	61.7	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
	48.4	61.9	62.1	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000 ≥ 12000	49.6	63.0	63.2	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
	52.8	67.8	68.0	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000 ≥ 9000	58.6	75.0	75.2	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
	58.7	75.7	75.9	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 8000 ≥ 7000	60.2	77.4	77.7	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
	61.2	78.6	78.8	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.3
≥ 6000 ≥ 5000	62.1	79.6	79.8	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.3
	63.8	81.9	82.1	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.7
≥ 4500 ≥ 4000	64.4	83.1	83.3	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.0
	66.2	85.9	86.2	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.9
≥ 3500 ≥ 3000	67.3	87.3	87.8	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.4
	68.2	88.7	89.1	89.4	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.9
≥ 2500 ≥ 2000	68.4	89.2	89.7	90.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.6
	68.8	89.8	90.2	90.6	90.6	90.7	90.8	90.8	90.8	90.8	90.9	90.9	91.0	91.0	91.0	91.2
≥ 1800 ≥ 1500	69.0	90.2	90.7	91.0	91.0	91.1	91.2	91.2	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.7
	69.0	90.9	91.3	91.9	91.9	92.1	92.8	92.8	92.8	92.8	92.9	92.9	93.0	93.0	93.0	93.2
≥ 1200 ≥ 1000	69.1	91.4	91.9	92.4	92.4	92.8	93.7	93.9	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.3
	69.1	91.6	92.0	92.6	92.6	93.1	94.2	94.6	94.7	94.8	94.9	94.9	95.0	95.0	95.0	95.2
≥ 900 ≥ 800	69.3	92.0	92.6	93.1	93.1	93.7	94.8	95.1	95.2	95.3	95.4	95.4	95.6	95.6	95.6	95.8
	69.3	92.1	92.7	93.2	93.2	93.9	95.0	95.4	95.6	95.7	95.8	95.9	95.9	95.9	95.9	96.1
≥ 70 ≥ 600	69.3	92.2	92.8	93.3	93.3	94.0	95.1	95.6	95.8	95.9	96.0	96.0	96.1	96.1	96.1	96.3
	69.3	92.3	92.9	93.4	93.4	94.3	95.4	95.9	96.1	96.3	96.4	96.4	96.6	96.6	96.6	96.8
≥ 500 ≥ 400	69.3	92.6	93.2	93.8	93.9	94.8	95.9	96.3	96.6	96.8	96.9	96.9	97.0	97.0	97.0	97.2
	69.3	92.8	93.4	94.0	94.1	95.0	96.2	96.7	96.9	97.1	97.2	97.2	97.3	97.3	97.3	97.6
≥ 300 ≥ 200	69.3	92.9	93.6	94.1	94.2	95.3	96.6	97.0	97.2	97.6	97.8	97.8	98.0	98.0	98.0	98.2
	69.3	92.9	93.6	94.1	94.3	95.4	96.7	97.1	97.3	97.8	98.0	98.0	98.2	98.2	98.3	98.8
≥ 100 ≥ 0	69.3	92.9	93.6	94.1	94.3	95.4	96.7	97.1	97.3	97.8	98.0	98.0	98.2	98.2	98.4	99.3
	69.3	92.9	93.6	94.1	94.3	95.4	96.7	97.1	97.3	97.8	98.0	98.0	98.2	98.2	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500 HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥⅜	≥5/16	≥¼	≥0
NO CEILING	39.3	50.3	50.4	50.4	50.8	50.8	50.8	50.8	50.9	50.9	50.9	50.9	51.0	51.1	51.1	51.2
≥ 20000	47.6	61.9	62.0	62.0	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.6	62.7	62.7	62.8
≥ 18000	47.6	61.9	62.0	62.0	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.6	62.7	62.7	62.8
≥ 16000	47.6	61.9	62.0	62.0	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.6	62.7	62.7	62.8
≥ 14000	48.1	62.4	62.6	62.6	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.1	63.2	63.2	63.3
≥ 12000	51.4	67.1	67.2	67.2	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.9	68.0	68.0	68.1
≥ 10000	57.2	74.2	74.3	74.3	74.8	74.8	74.8	74.8	74.9	75.0	75.0	75.0	75.1	75.2	75.2	75.3
≥ 9000	57.3	74.9	75.0	75.0	75.4	75.4	75.4	75.4	75.6	75.7	75.7	75.7	75.8	75.9	75.9	76.0
≥ 8000	59.4	77.0	77.1	77.1	77.6	77.6	77.6	77.6	77.7	77.8	77.8	77.8	77.9	78.0	78.0	78.1
≥ 7000	60.1	77.8	77.9	77.9	78.3	78.3	78.3	78.3	78.4	78.6	78.6	78.6	78.7	78.8	78.8	78.9
≥ 6000	60.4	78.1	78.2	78.2	78.7	78.7	78.7	78.7	78.8	78.9	78.9	78.9	79.0	79.1	79.1	79.2
≥ 5000	61.8	80.2	80.3	80.3	80.8	80.8	80.8	80.8	80.9	81.0	81.0	81.0	81.1	81.2	81.2	81.3
≥ 4500	62.6	81.4	81.6	81.6	82.0	82.0	82.0	82.0	82.1	82.2	82.2	82.2	82.3	82.4	82.4	82.6
≥ 4000	64.1	83.6	83.7	83.7	84.1	84.1	84.1	84.1	84.2	84.3	84.3	84.3	84.4	84.6	84.6	84.7
≥ 3500	65.6	85.0	85.1	85.1	85.6	85.6	85.6	85.6	85.7	85.8	85.8	85.8	85.9	86.0	86.0	86.1
≥ 3000	65.9	86.2	86.3	86.3	86.8	86.8	86.9	86.9	87.0	87.1	87.1	87.1	87.2	87.3	87.3	87.4
≥ 2500	66.6	87.4	87.6	87.6	88.0	88.0	88.1	88.3	88.4	88.6	88.6	88.6	88.7	88.8	88.8	88.9
≥ 2000	67.0	88.3	88.6	88.6	89.0	89.1	89.3	89.6	89.7	89.8	89.8	89.8	89.9	90.1	90.1	90.2
≥ 1800	67.0	88.4	88.8	88.8	89.3	89.4	89.7	89.9	90.0	90.1	90.1	90.1	90.2	90.4	90.4	90.6
≥ 1500	67.2	88.9	89.4	89.4	90.0	90.1	90.3	90.6	90.9	91.0	91.0	91.0	91.1	91.3	91.3	91.4
≥ 1200	67.4	89.9	90.4	90.4	91.1	91.2	91.8	92.6	92.9	93.0	93.0	93.0	93.1	93.3	93.3	93.4
≥ 1000	67.7	90.6	91.1	91.1	91.9	92.1	92.7	93.4	93.9	94.0	94.0	94.0	94.1	94.3	94.3	94.4
≥ 900	67.9	90.9	91.6	91.6	92.6	92.8	93.3	94.3	94.8	94.9	94.9	94.9	95.0	95.2	95.2	95.3
≥ 800	67.9	90.9	91.6	91.6	92.6	92.8	93.3	94.3	94.8	94.9	94.9	94.9	95.0	95.2	95.2	95.3
≥ 700	67.9	90.9	91.6	91.6	92.6	92.8	93.3	94.4	94.9	95.0	95.0	95.0	95.1	95.3	95.3	95.4
≥ 600	67.9	91.1	91.8	91.8	92.8	93.1	93.7	94.8	95.3	95.6	95.6	95.6	95.7	95.9	96.0	96.1
≥ 500	67.9	91.1	91.9	91.9	92.9	93.2	93.9	95.1	95.7	95.9	95.9	95.9	96.1	96.3	96.6	96.7
≥ 400	67.9	91.1	91.9	91.9	92.9	93.2	93.9	95.2	95.8	96.1	96.1	96.1	96.3	96.7	96.9	97.0
≥ 300	67.9	91.1	91.9	91.9	92.9	93.6	94.2	95.6	96.1	96.4	96.4	96.4	96.7	97.1	97.4	97.6
≥ 200	67.9	91.1	91.9	91.9	92.9	93.6	94.2	95.7	96.2	96.6	96.6	96.6	96.8	97.3	97.9	98.0
≥ 100	67.9	91.1	91.9	91.9	92.9	93.6	94.2	95.7	96.2	96.6	96.7	96.7	97.0	97.6	98.1	98.7
≥ 0	67.9	91.1	91.9	91.9	92.9	93.6	94.2	95.7	96.2	96.6	96.7	96.7	97.0	97.6	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	39.4	44.7	44.8	44.8	44.9	44.9	44.9	44.9	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0
	49.7	57.6	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.9	57.9	57.9	58.0	58.0	58.0	58.0
≥ 18000 ≥ 16000	49.7	57.6	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.9	57.9	57.9	58.0	58.0	58.0	53.0
	49.7	57.6	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.9	57.9	57.9	58.0	56.0	58.0	58.0
≥ 14000 ≥ 12000	50.9	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.2
	55.7	63.6	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0
≥ 10000 ≥ 9000	63.7	72.3	72.4	72.6	72.7	72.7	72.7	72.7	72.7	72.8	72.8	72.8	72.9	73.0	73.0	73.0
	64.3	73.3	73.4	73.6	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.9	74.0	74.0	74.0
≥ 8000 ≥ 7000	66.3	75.4	75.6	75.7	75.8	75.8	75.5	75.8	75.8	75.9	75.9	75.9	76.0	76.1	76.1	76.1
	68.3	77.4	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	78.0	78.1	78.1	78.1
≥ 6000 ≥ 5000	69.1	78.2	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.8	78.9	78.9	78.9
	71.2	80.9	81.0	81.1	81.4	81.4	81.6	81.6	81.6	81.7	81.7	81.7	81.8	81.9	81.9	81.9
≥ 4500 ≥ 4000	71.8	81.4	81.6	81.7	82.0	82.0	82.1	82.1	82.1	82.2	82.2	82.2	82.3	82.4	82.4	82.4
	72.8	82.7	82.8	82.9	83.6	83.6	83.7	83.7	83.8	83.9	83.9	83.9	84.0	84.1	84.1	84.1
≥ 3500 ≥ 3000	73.6	83.7	83.8	83.9	84.6	84.6	84.7	84.7	84.8	84.9	84.9	84.9	85.0	85.1	85.1	85.1
	74.7	85.3	85.4	85.6	86.2	86.2	86.3	86.3	86.4	86.6	86.6	86.6	86.7	86.8	86.8	86.8
≥ 2500 ≥ 2000	75.4	86.3	86.6	86.7	87.6	87.6	87.7	87.7	87.8	87.9	87.9	87.9	88.0	88.1	88.1	88.1
	75.7	86.7	86.9	87.0	87.9	87.9	88.2	88.3	88.4	88.6	88.6	88.6	88.7	88.8	88.8	88.8
≥ 1800 ≥ 1500	75.7	86.7	87.0	87.1	88.0	88.0	88.3	88.4	88.6	88.7	88.7	88.7	88.8	88.9	88.9	88.9
	75.8	87.3	87.7	87.9	88.9	88.9	89.3	89.6	89.7	89.9	89.9	89.9	90.0	90.1	90.1	90.1
≥ 1200 ≥ 1000	76.1	88.1	88.6	88.8	89.8	89.9	90.8	91.0	91.1	91.3	91.3	91.3	91.4	91.6	91.6	91.6
	76.1	88.4	88.9	89.1	90.2	90.4	91.3	91.6	91.8	92.0	92.0	92.0	92.1	92.2	92.2	92.2
≥ 900 ≥ 800	76.1	88.6	89.1	89.3	90.4	90.8	91.9	92.1	92.4	92.8	92.8	92.8	92.9	93.0	93.0	93.0
	76.2	88.7	89.2	89.4	90.6	90.9	92.0	92.2	92.6	93.0	93.0	93.0	93.1	93.2	93.2	93.2
≥ 700 ≥ 600	76.3	89.2	89.8	90.0	91.1	91.4	92.6	92.8	93.1	93.6	93.6	93.6	93.7	93.8	93.8	93.8
	76.4	90.1	90.7	90.9	92.0	92.4	93.6	93.8	94.1	94.6	94.6	94.6	94.7	94.8	94.8	94.8
≥ 500 ≥ 400	76.4	90.2	90.8	91.0	92.2	92.7	93.9	94.2	94.6	95.1	95.1	95.1	95.3	95.4	95.4	95.4
	76.4	90.4	91.1	91.3	92.6	93.0	94.2	94.8	95.1	95.7	95.9	95.9	96.1	96.2	96.2	96.2
≥ 300 ≥ 200	76.4	90.4	91.1	91.3	92.6	93.2	94.6	95.1	95.4	96.0	96.2	96.2	96.4	96.6	96.7	96.7
	76.4	90.4	91.1	91.3	92.6	93.3	94.8	95.4	95.9	96.4	96.7	96.7	97.2	97.4	97.7	97.7
≥ 100 ≥ 0	76.4	90.4	91.1	91.3	92.6	93.3	94.8	95.4	95.9	96.4	96.7	96.7	97.3	97.6	97.9	98.2
	76.4	90.4	91.1	91.3	92.6	93.3	94.8	95.4	95.9	96.4	96.7	96.7	97.3	97.6	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV

STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100 HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	42.2	42.3	42.3	42.3	42.3	42.6	42.7	42.7	42.8	42.8	42.9	42.9	42.9	42.9	42.9	43.0
	53.8	53.9	53.9	53.9	53.9	54.1	54.2	54.2	54.3	54.3	54.4	54.4	54.6	54.6	54.6	54.7
≥ 18000 ≥ 16000	53.8	53.9	53.9	53.9	53.9	54.1	54.2	54.2	54.3	54.3	54.4	54.4	54.6	54.6	54.6	54.7
	53.9	54.0	54.0	54.0	54.0	54.2	54.3	54.3	54.4	54.4	54.6	54.6	54.7	54.7	54.7	54.8
≥ 14000 ≥ 12000	55.0	55.1	55.1	55.1	55.1	55.3	55.4	55.4	55.6	55.6	55.7	55.7	55.8	55.8	55.8	55.9
	61.0	61.1	61.1	61.1	61.1	61.3	61.4	61.4	61.6	61.7	61.8	61.8	61.9	61.9	61.9	62.0
≥ 10000 ≥ 9000	69.3	69.6	69.6	69.6	69.6	69.8	70.0	70.0	70.1	70.2	70.3	70.3	70.4	70.4	70.4	70.7
	70.7	70.9	70.9	70.9	70.9	71.1	71.3	71.3	71.4	71.6	71.7	71.7	71.8	71.8	71.8	72.0
≥ 8000 ≥ 7000	72.6	73.1	73.2	73.2	73.3	73.6	73.8	73.8	73.9	74.0	74.1	74.1	74.2	74.2	74.2	74.4
	74.4	75.1	75.3	75.3	75.4	75.8	76.0	76.0	76.1	76.2	76.3	76.3	76.6	76.6	76.6	76.8
≥ 6000 ≥ 5000	75.8	76.4	76.7	76.8	76.9	77.2	77.4	77.4	77.6	77.7	77.8	77.8	78.0	78.0	78.0	78.2
	78.9	79.7	80.1	80.2	80.4	80.9	81.1	81.1	81.2	81.3	81.4	81.4	81.7	81.7	81.7	81.9
≥ 4500 ≥ 4000	79.9	80.7	81.1	81.2	81.4	82.0	82.2	82.2	82.4	82.6	82.7	82.7	82.9	82.9	82.9	83.1
	81.8	82.8	83.2	83.3	83.7	84.2	84.4	84.4	84.7	84.8	85.0	85.0	85.2	85.2	85.2	85.4
≥ 3500 ≥ 3000	81.8	82.8	83.2	83.3	83.8	84.3	84.6	84.6	85.0	85.1	85.3	85.3	85.6	85.6	85.6	85.8
	82.2	83.3	83.9	84.0	84.6	85.1	85.4	85.4	85.9	86.1	86.3	86.3	86.6	86.6	86.6	86.8
≥ 2500 ≥ 2000	82.3	83.7	84.3	84.4	85.0	85.6	85.9	85.9	86.3	86.7	86.9	86.9	87.1	87.1	87.1	87.3
	82.4	84.4	85.4	85.6	86.4	87.2	87.6	87.8	88.2	88.6	88.9	88.9	89.1	89.1	89.1	89.3
≥ 1800 ≥ 1500	82.6	84.6	85.6	85.7	86.6	87.3	87.7	88.1	88.6	88.9	89.2	89.2	89.4	89.4	89.4	89.7
	82.9	85.1	86.1	86.3	87.2	88.0	88.3	88.9	89.4	90.0	90.3	90.3	90.6	90.6	90.6	90.8
≥ 1200 ≥ 1000	83.0	85.3	86.4	86.7	87.7	88.4	88.9	89.4	90.3	91.0	91.3	91.3	91.6	91.6	91.6	91.8
	83.1	85.9	87.1	87.4	88.6	89.3	89.9	90.6	91.4	92.3	92.7	92.9	93.1	93.1	93.2	93.4
≥ 900 ≥ 800	83.2	86.2	87.4	87.8	88.9	89.7	90.3	91.0	92.0	93.1	93.4	93.7	93.9	93.9	94.0	94.2
	83.2	86.2	87.4	87.8	88.9	89.8	90.4	91.1	92.2	93.4	93.8	94.0	94.2	94.2	94.3	94.6
≥ 700 ≥ 600	83.3	86.4	87.7	88.0	89.2	90.1	91.0	91.7	92.8	94.2	94.7	94.9	95.1	95.1	95.2	95.4
	83.3	86.8	88.2	88.6	89.8	90.7	91.6	92.2	93.4	95.0	95.4	95.7	95.9	95.9	96.0	96.2
≥ 500 ≥ 400	83.4	86.9	88.3	88.7	90.3	91.2	92.2	93.0	94.2	96.0	96.6	96.9	97.1	97.1	97.2	97.4
	83.4	86.9	88.4	88.8	90.4	91.3	92.3	93.1	94.3	96.1	96.7	97.0	97.2	97.2	97.4	97.7
≥ 300 ≥ 200	83.4	86.9	88.4	88.8	90.6	91.6	92.6	93.3	94.6	96.4	97.0	97.3	97.6	97.6	97.8	98.0
	83.4	87.0	88.6	89.0	90.9	92.0	93.0	93.8	95.0	96.9	97.7	98.0	98.2	98.2	98.4	98.8
≥ 100 ≥ 0	83.4	87.0	88.6	89.0	90.9	92.0	93.0	93.8	95.0	96.9	97.7	98.0	98.2	98.2	98.8	99.6
	83.4	87.0	88.6	89.0	90.9	92.0	93.0	93.8	95.0	96.9	97.7	98.0	98.2	98.2	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	45.9	46.2	46.6	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
	58.0	58.3	58.7	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 18000	58.3	58.7	59.0	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 16000	58.7	59.0	59.3	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 14000	60.0	60.3	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 12000	66.3	66.7	67.0	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 10000	73.9	74.8	75.1	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.8	75.8	75.8	75.8
≥ 9000	75.2	76.1	76.4	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.1
≥ 8000	76.6	77.7	78.0	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.7	78.7	78.7	78.7
≥ 7000	78.9	80.0	80.3	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	81.0	81.0	81.0	81.0
≥ 6000	79.8	80.9	81.2	81.3	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.9	82.0	82.0	82.0	82.0
≥ 5000	82.8	84.0	84.3	84.4	84.8	84.8	84.8	85.0	85.1	85.1	85.1	85.2	85.3	85.3	85.3	85.3
≥ 4500	83.3	84.6	85.0	85.1	85.4	85.4	85.4	85.7	85.8	85.8	85.8	85.9	86.0	86.0	86.0	86.0
≥ 4000	84.9	86.3	87.1	87.3	87.7	87.7	87.7	87.9	88.0	88.0	88.0	88.1	88.2	88.2	88.2	88.2
≥ 3500	84.9	86.3	87.2	87.4	87.9	87.9	87.9	88.1	88.2	88.2	88.2	88.3	88.4	88.4	88.4	88.4
≥ 3000	85.2	86.9	87.8	88.0	88.7	88.7	88.7	89.0	89.1	89.1	89.1	89.2	89.3	89.3	89.3	89.3
≥ 2500	85.3	87.0	87.9	88.2	88.9	88.9	88.9	89.2	89.3	89.3	89.3	89.4	89.6	89.6	89.6	89.6
≥ 2000	85.6	87.3	88.2	88.6	89.4	89.7	89.7	90.0	90.1	90.1	90.1	90.2	90.3	90.3	90.3	90.3
≥ 1800	85.8	87.7	88.6	88.9	89.9	90.1	90.1	90.4	90.6	90.6	90.6	90.7	90.8	90.8	90.8	90.8
≥ 1500	86.1	88.3	89.2	89.6	90.9	91.1	91.1	91.4	91.6	92.0	92.0	92.2	92.3	92.3	92.3	92.3
≥ 1200	86.4	89.0	90.0	90.6	91.9	92.1	92.1	92.6	92.7	93.3	93.6	93.8	93.9	93.9	93.9	93.9
≥ 1000	86.7	89.7	90.8	91.4	93.1	93.3	93.3	93.8	94.2	95.3	95.7	95.9	96.0	96.0	96.0	96.0
≥ 900	86.8	89.9	91.1	91.8	93.4	93.7	93.7	94.2	94.7	95.9	96.3	96.6	96.7	96.7	96.7	96.7
≥ 800	86.8	90.0	91.2	91.9	93.6	93.8	93.8	94.3	94.8	96.0	96.4	96.7	96.8	96.8	96.8	96.8
≥ 700	86.8	90.0	91.2	91.9	93.6	93.8	93.8	94.4	94.9	96.2	96.8	97.0	97.1	97.1	97.3	97.3
≥ 600	86.8	90.1	91.3	92.2	94.0	94.2	94.2	94.9	95.3	96.8	97.7	97.9	98.0	98.0	98.2	98.2
≥ 500	86.8	90.1	91.4	92.3	94.2	94.4	94.4	95.1	95.6	97.1	98.0	98.2	98.3	98.3	98.6	98.6
≥ 400	86.8	90.2	91.6	92.4	94.3	94.6	94.6	95.3	95.8	97.4	98.3	98.6	98.8	98.9	99.2	99.2
≥ 300	86.8	90.3	91.7	92.6	94.4	94.7	94.7	95.4	95.9	97.6	98.4	98.7	98.9	99.0	99.3	99.4
≥ 200	86.8	90.3	91.7	92.6	94.4	94.7	94.7	95.6	96.1	97.8	98.8	99.0	99.2	99.3	99.7	99.8
≥ 100	86.8	90.3	91.7	92.6	94.4	94.7	94.7	95.6	96.1	97.8	98.8	99.0	99.3	99.4	99.9	100.0
≥ 0	86.8	90.3	91.7	92.6	94.4	94.7	94.7	95.6	96.1	97.8	98.8	99.0	99.3	99.4	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   900

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	48.3	48.4	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 20000	59.0	59.1	59.3	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 18000	59.3	59.6	59.8	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 16000	59.6	59.7	60.0	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 14000	61.1	61.2	61.4	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 12000	67.3	67.4	67.6	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	73.7	74.1	74.3	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 9000	76.3	76.8	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 8000	78.8	79.4	79.6	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000	81.0	81.9	82.1	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 6000	82.4	83.4	83.6	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 5000	83.8	85.3	85.5	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 4500	85.1	86.7	86.9	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4000	86.5	88.1	88.4	88.7	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3500	87.1	89.0	89.3	89.5	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 3000	87.5	89.7	90.0	90.2	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 2500	88.2	90.7	91.0	91.2	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2000	88.4	91.3	91.7	92.0	92.8	92.9	92.9	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	88.8	91.7	92.0	92.3	93.1	93.2	93.2	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1500	89.3	92.4	92.8	93.1	93.9	94.0	94.0	94.2	94.2	94.7	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200	89.7	92.8	93.1	93.4	94.3	94.5	94.5	94.8	95.0	95.6	95.7	95.7	95.8	95.8	95.8	95.8
≥ 1000	89.8	93.1	93.4	93.9	95.1	95.3	95.4	95.8	96.1	97.1	97.2	97.3	97.4	97.4	97.4	97.4
≥ 900	89.8	93.3	93.7	94.2	95.4	95.7	95.8	96.1	96.4	97.4	97.6	97.7	97.8	97.8	97.8	97.8
≥ 800	89.9	93.4	93.8	94.3	95.6	95.8	95.9	96.2	96.6	97.6	97.7	97.8	97.9	97.9	97.9	97.9
≥ 700	89.9	93.5	94.0	94.5	95.8	96.0	96.1	96.4	96.8	97.9	98.0	98.1	98.2	98.2	98.3	98.3
≥ 600	90.0	93.8	94.2	94.8	96.0	96.2	96.3	96.7	97.0	98.3	98.4	98.6	98.8	98.8	98.9	98.9
≥ 500	90.1	94.0	94.5	95.1	96.3	96.6	96.7	97.0	97.4	98.9	99.0	99.1	99.3	99.3	99.6	99.6
≥ 400	90.1	94.0	94.5	95.1	96.3	96.6	96.7	97.0	97.4	98.9	99.0	99.1	99.3	99.3	99.6	99.6
≥ 300	90.1	94.1	94.7	95.2	96.4	96.7	96.8	97.1	97.7	99.1	99.3	99.4	99.7	99.7	99.9	99.9
≥ 200	90.1	94.1	94.7	95.2	96.4	96.7	96.8	97.1	97.7	99.1	99.3	99.4	99.8	99.8	100.0	100.0
≥ 100	90.1	94.1	94.7	95.2	96.4	96.7	96.8	97.1	97.7	99.1	99.3	99.4	99.8	99.8	100.0	100.0
≥ 0	90.1	94.1	94.7	95.2	96.4	96.7	96.8	97.1	97.7	99.1	99.3	99.4	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS   899

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 YEARS NOV MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	39.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
	45.7	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 18000 ≥ 16000	45.8	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
	45.8	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 14000 ≥ 12000	47.2	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
	54.1	69.3	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 10000 ≥ 9000	59.0	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
	60.4	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 8000 ≥ 7000	63.2	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	64.8	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 6000 ≥ 5000	65.9	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
	66.7	84.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4500 ≥ 4000	67.2	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
	68.2	87.2	87.5	87.6	67.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500 ≥ 3000	69.1	88.5	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
	69.8	89.6	90.1	90.2	90.2	90.2	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2500 ≥ 2000	70.0	90.0	90.5	90.6	90.7	90.7	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
	70.3	90.7	91.5	91.6	91.8	91.8	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800 ≥ 1500	70.3	90.7	91.5	91.6	91.8	91.8	92.0	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3
	70.6	91.9	92.8	92.9	93.0	93.0	93.3	93.4	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1200 ≥ 1000	70.8	92.3	93.3	93.4	93.8	94.0	94.4	94.6	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	71.1	93.3	94.3	94.4	95.2	95.4	96.0	96.2	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 900 ≥ 800	71.3	93.5	94.5	94.6	95.4	95.8	96.3	96.5	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	71.5	93.6	94.8	95.0	95.8	96.1	96.7	96.9	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700 ≥ 600	71.5	93.6	94.8	95.0	95.8	96.1	96.7	96.9	97.1	97.8	97.8	97.8	97.9	97.9	97.9	97.9
	71.7	94.0	95.1	95.3	96.1	96.4	97.2	97.4	97.7	98.3	98.3	98.3	98.4	98.4	98.4	98.4
≥ 500 ≥ 400	71.9	94.2	95.3	95.5	96.3	96.8	97.5	97.8	98.0	98.7	98.7	98.7	98.8	98.8	98.8	98.8
	71.9	94.2	95.4	95.7	96.4	96.9	97.7	97.9	98.1	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 300 ≥ 200	71.9	94.2	95.4	95.7	96.4	96.9	97.8	98.0	98.2	99.0	99.2	99.2	99.3	99.3	99.3	99.3
	71.9	94.2	95.4	95.7	96.4	96.9	97.8	98.0	98.2	99.0	99.3	99.3	99.4	99.4	99.4	99.6
≥ 100 ≥ 0	71.9	94.2	95.4	95.7	96.4	96.9	97.8	98.0	98.2	99.0	99.4	99.4	99.6	99.6	99.6	99.7
	71.9	94.2	95.4	95.7	96.4	96.9	97.8	98.0	98.2	99.0	99.4	99.4	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 897

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 NOV
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	40.2	52.3	52.3	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
	47.8	62.0	62.0	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 18000	47.9	62.3	62.3	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000	47.9	62.3	62.3	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000	49.6	64.0	64.0	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 12000	54.0	69.5	69.5	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 10000	59.8	76.1	76.1	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	60.6	77.9	77.9	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 8000	62.8	80.0	80.0	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 7000	64.3	81.7	81.7	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2
≥ 6000	65.7	83.6	83.7	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2
≥ 5000	66.8	85.1	85.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8
≥ 4500	67.1	86.1	86.3	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8
≥ 4000	68.3	88.1	88.3	88.5	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0
≥ 3500	69.6	89.7	90.0	90.2	90.5	90.5	90.5	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.9	90.9
≥ 3000	70.1	90.3	90.6	90.9	91.2	91.2	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.5	91.5
≥ 2500	71.0	91.3	91.6	91.9	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.5	92.5
≥ 2000	71.3	91.9	92.3	92.5	92.9	93.0	93.0	93.0	93.0	93.3	93.3	93.3	93.3	93.3	93.4	93.4
≥ 1800	71.3	92.0	92.4	92.6	93.0	93.2	93.2	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.6	93.6
≥ 1500	71.5	92.4	92.9	93.1	93.8	94.0	94.1	94.1	94.1	94.4	94.4	94.4	94.4	94.4	94.5	94.5
≥ 1200	71.5	92.6	93.1	93.3	94.1	94.3	94.4	94.4	94.5	94.9	94.9	94.9	94.9	94.9	95.0	95.0
≥ 1000	71.7	93.0	93.4	93.6	94.4	94.6	94.8	94.8	95.0	95.7	95.7	95.7	95.7	95.7	95.8	95.8
≥ 900	72.2	93.8	94.2	94.4	95.3	95.5	95.7	95.7	95.9	96.5	96.5	96.5	96.5	96.5	96.7	96.7
≥ 800	72.4	94.0	94.4	94.6	95.5	95.8	95.9	95.9	96.1	96.8	96.8	96.8	96.8	96.8	96.9	96.9
≥ 700	72.4	94.1	94.5	94.8	95.7	96.0	96.1	96.1	96.3	97.1	97.1	97.1	97.1	97.1	97.2	97.2
≥ 600	72.4	94.1	94.5	94.8	95.7	96.0	96.2	96.2	96.5	97.4	97.4	97.4	97.4	97.4	97.5	97.5
≥ 500	72.4	94.1	94.6	94.9	95.8	96.1	96.3	96.3	96.7	97.5	97.5	97.5	97.5	97.5	97.7	97.7
≥ 400	72.5	94.4	95.0	95.2	96.1	96.4	96.7	96.7	97.0	97.9	97.9	97.9	97.9	97.9	98.0	98.0
≥ 300	72.5	94.5	95.1	95.3	96.2	96.5	96.8	96.8	97.1	98.0	98.2	98.2	98.3	98.3	98.4	98.4
≥ 200	72.5	94.5	95.1	95.3	96.3	96.7	97.0	97.0	97.3	98.2	98.4	98.4	98.6	98.6	98.7	99.0
≥ 100	72.5	94.5	95.1	95.3	96.3	96.7	97.0	97.0	97.3	98.2	98.4	98.4	98.6	98.6	98.7	99.3
≥ 0	72.5	94.5	95.1	95.3	96.3	96.7	97.0	97.0	97.3	98.2	98.4	98.4	98.6	98.6	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS   897

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV   ALL
STATION   STATION NAME   YEARS   MONTH   HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5·16	≥¼	≥0
NO CEILING ≥20000	42.1	48.4	48.6	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9
	51.2	59.1	59.3	59.3	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7
≥18000 ≥16000	51.3	59.4	59.5	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9
	51.5	59.5	59.6	59.7	59.8	59.9	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0
≥14000 ≥12000	52.7	60.7	60.9	60.9	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3
	57.8	66.6	66.7	66.8	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1
≥10000 ≥9000	64.4	73.9	74.1	74.2	74.3	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.6	74.6	74.6
	65.5	75.3	75.5	75.6	75.7	75.7	75.8	75.8	75.8	75.9	75.9	75.9	75.9	76.0	76.0	76.0
≥8000 ≥7000	67.5	77.5	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.2	78.2	78.2
	69.1	79.3	79.4	79.5	79.7	79.7	79.8	79.8	79.8	79.8	79.9	79.9	79.9	80.0	80.0	80.1
≥6000 ≥5000	70.2	80.5	80.7	80.8	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.3	81.3	81.3
	72.0	82.7	83.0	83.1	83.3	83.4	83.4	83.5	83.5	83.5	83.6	83.6	83.6	83.7	83.7	83.7
≥4500 ≥4000	72.7	83.7	84.0	84.1	84.3	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.8
	74.1	85.6	85.9	86.1	86.4	86.5	86.5	86.6	86.6	86.7	86.7	86.7	86.8	86.8	86.8	86.9
≥3500 ≥3000	74.9	86.5	86.9	87.1	87.4	87.5	87.6	87.6	87.7	87.8	87.8	87.8	87.9	87.9	87.9	88.0
	75.5	87.5	87.9	88.1	88.5	88.6	88.7	88.8	88.9	88.9	89.0	89.0	89.1	89.1	89.1	89.2
≥2500 ≥2000	75.9	88.2	88.6	88.8	89.3	89.4	89.5	89.6	89.7	89.8	89.8	89.8	89.9	89.9	89.9	90.0
	76.2	88.8	89.4	89.5	90.3	90.3	90.4	90.6	90.7	90.8	90.9	90.9	91.0	91.0	91.0	91.1
≥1800 ≥1500	76.3	89.0	89.6	89.8	90.3	90.5	90.7	90.9	90.9	91.1	91.2	91.2	91.3	91.3	91.3	91.4
	76.5	89.7	90.3	90.5	91.2	91.4	91.7	91.9	92.0	92.3	92.4	92.4	92.5	92.5	92.6	92.6
≥1200 ≥1000	76.8	90.2	90.9	91.1	91.9	92.2	92.6	92.9	93.2	93.5	93.6	93.7	93.8	93.8	93.8	93.9
	76.9	90.7	91.4	91.7	92.6	93.0	93.5	93.8	94.2	94.8	94.9	94.9	95.0	95.1	95.1	95.2
≥900 ≥800	77.1	91.0	91.8	92.1	93.1	93.4	94.0	94.4	94.8	95.4	95.5	95.6	95.7	95.7	95.8	95.8
	77.1	91.1	91.9	92.2	93.2	93.6	94.1	94.6	95.0	95.6	95.7	95.8	95.9	95.9	96.0	96.0
≥700 ≥600	77.2	91.3	92.0	92.4	93.4	93.8	94.3	94.8	95.2	96.0	96.1	96.2	96.3	96.3	96.4	96.5
	77.2	91.5	92.3	92.7	93.7	94.2	94.8	95.2	95.7	96.5	96.7	96.8	96.9	97.0	97.1	97.1
≥500 ≥400	77.3	91.6	92.5	92.9	94.0	94.5	95.1	95.6	96.1	97.0	97.2	97.3	97.4	97.5	97.6	97.7
	77.3	91.8	92.7	93.0	94.1	94.6	95.3	95.8	96.3	97.2	97.5	97.6	97.7	97.8	97.9	98.0
≥300 ≥200	77.3	91.8	92.7	93.1	94.2	94.8	95.5	96.0	96.5	97.5	97.8	97.9	98.1	98.2	98.4	98.4
	77.3	91.8	92.7	93.1	94.3	94.9	95.6	96.2	96.7	97.7	98.1	98.2	98.4	98.5	98.8	98.9
≥100 ≥0	77.3	91.8	92.7	93.1	94.3	94.9	95.6	96.2	96.7	97.7	98.1	98.2	98.5	98.6	98.9	99.3
	77.3	91.8	92.7	93.1	94.3	94.9	95.6	96.2	96.7	97.7	98.1	98.2	98.5	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS   7193

CEILING VERSUS VISIBILITY

24112 — MALMSTROM AFB MT/GREAT FALLS — 67-76 — DEC

STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	28.6	43.7	44.0	44.0	44.3	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.8	44.9	45.1	45.3
≥ 20000	36.6	56.1	56.5	56.5	56.9	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.6	57.7	57.8	58.1
≥ 18000	36.9	56.5	56.8	56.8	57.2	57.2	57.6	57.6	57.6	57.6	57.6	57.6	58.0	58.1	58.2	58.4
≥ 16000	36.9	56.5	56.8	56.8	57.2	57.2	57.6	57.6	57.6	57.6	57.6	57.6	58.0	58.1	58.2	58.4
≥ 14000	37.3	56.9	57.2	57.2	57.6	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.4	58.5	58.6	58.8
≥ 12000	39.9	60.0	60.3	60.3	60.8	60.8	61.2	61.2	61.2	61.2	61.2	61.2	61.5	61.6	61.7	61.9
≥ 10000	48.0	69.1	69.5	69.5	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.6	70.8	70.9	71.1
≥ 9000	48.6	70.0	70.3	70.3	70.8	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.5	71.6	71.7	71.9
≥ 8000	50.5	72.3	72.6	72.6	73.0	73.0	73.4	73.4	73.4	73.4	73.4	73.4	73.8	73.9	74.0	74.2
≥ 7000	51.5	73.5	73.9	73.9	74.5	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.4	75.5	75.6	75.8
≥ 6000	52.3	74.8	75.2	75.2	75.8	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.7	76.8	76.9	77.1
≥ 5000	54.1	78.3	78.6	78.6	79.2	79.5	79.9	79.9	79.9	79.9	79.9	79.9	80.2	80.3	80.4	80.6
≥ 4500	54.7	79.6	79.9	79.9	80.5	80.8	81.2	81.2	81.2	81.2	81.2	81.2	81.5	81.6	81.7	81.9
≥ 4000	55.9	81.7	82.2	82.2	82.8	83.0	83.4	83.4	83.8	83.8	83.8	83.8	84.1	84.2	84.3	84.5
≥ 3500	56.3	82.5	83.0	83.0	83.7	83.9	84.5	84.5	84.8	84.8	84.8	84.8	85.2	85.3	85.4	85.6
≥ 3000	57.1	83.4	84.0	84.0	84.6	84.8	85.5	85.6	86.1	86.1	86.1	86.1	86.5	86.6	86.7	86.9
≥ 2500	57.7	84.5	85.1	85.1	85.8	86.0	86.7	86.8	87.3	87.3	87.3	87.3	87.6	87.7	87.8	88.1
≥ 2000	57.8	85.2	86.1	86.1	87.3	87.5	88.3	88.5	89.0	89.0	89.0	89.0	89.4	89.5	89.6	89.8
≥ 1800	57.8	85.3	86.3	86.3	87.7	88.0	88.8	89.0	89.6	89.6	89.6	89.6	89.9	90.0	90.1	90.3
≥ 1500	58.2	85.8	87.3	87.3	88.8	89.1	90.0	90.2	90.8	90.9	90.9	90.9	91.2	91.3	91.5	91.7
≥ 1200	58.4	86.6	88.4	88.6	90.3	90.8	91.6	92.3	92.8	92.9	92.9	92.9	93.2	93.3	93.5	93.8
≥ 1000	58.5	86.8	89.0	89.2	91.1	91.5	92.4	93.0	93.5	93.9	94.1	94.1	94.4	94.5	94.7	94.9
≥ 900	58.5	86.8	89.0	89.2	91.1	91.5	92.4	93.1	93.7	94.0	94.2	94.3	94.6	94.7	94.9	95.2
≥ 800	58.5	86.9	89.1	89.4	91.3	91.7	92.6	93.3	93.9	94.2	94.4	94.7	95.3	95.4	95.6	95.8
≥ 700	58.5	87.2	89.6	90.0	91.9	92.4	93.2	94.2	94.7	95.1	95.4	95.7	96.2	96.3	96.6	96.8
≥ 600	58.5	87.3	89.7	90.1	92.0	92.5	93.3	94.5	95.2	95.5	95.8	96.1	96.8	96.9	97.1	97.5
≥ 500	59.0	88.0	90.3	90.8	92.7	93.1	94.0	95.3	95.9	96.2	96.7	97.0	97.6	97.7	98.0	98.4
≥ 400	59.0	88.0	90.3	90.8	92.7	93.1	94.1	95.5	96.1	96.5	96.9	97.2	97.8	98.0	98.2	98.6
≥ 300	59.0	88.0	90.3	90.8	92.7	93.1	94.1	95.5	96.1	96.5	96.9	97.2	98.0	98.1	98.3	98.8
≥ 200	59.0	88.1	90.4	90.9	92.8	93.2	94.2	95.6	96.5	97.0	97.4	97.7	98.7	98.8	99.0	99.6
≥ 100	59.0	88.1	90.4	90.9	92.8	93.2	94.2	95.6	96.5	97.1	97.5	97.8	98.8	98.9	99.1	99.7
≥ 0	59.0	88.1	90.4	90.9	92.8	93.2	94.2	95.6	96.5	97.1	97.5	97.8	98.8	98.9	99.1	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   67-76   DEC
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS LST

CEILING FEET	\	\	\	\	VISIBILITY (STATUTE MILES)											
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	32.2	47.2	47.5	47.5	47.6	47.6	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.1	48.1	48.1
	39.2	59.7	60.1	60.1	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6
≥ 18000	39.2	59.7	60.1	60.1	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6
≥ 16000	39.4	59.8	60.2	60.2	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.8	60.8	60.8
≥ 14000	39.7	60.1	60.5	60.5	60.6	60.6	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.1	61.1
≥ 12000	42.0	62.6	63.0	63.0	63.1	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5	63.5
≥ 10000	50.0	71.0	71.4	71.4	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9
≥ 9000	50.3	71.6	72.0	72.0	72.2	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.6
≥ 8000	52.2	73.5	74.0	74.0	74.1	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5
≥ 7000	52.5	74.8	75.5	75.5	75.7	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2
≥ 6000	53.5	76.1	76.9	76.9	77.1	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6
≥ 5000	54.9	78.5	79.4	79.4	80.0	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5
≥ 4500	55.5	79.0	79.9	79.9	80.5	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1
≥ 4000	56.8	81.0	81.8	81.8	82.5	82.6	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1
≥ 3500	57.4	82.0	82.9	82.9	83.5	83.7	84.0	84.2	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.6
≥ 3000	57.6	82.7	83.7	83.7	84.3	84.5	84.9	85.2	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6
≥ 2500	57.7	83.5	84.5	84.5	85.2	85.4	85.8	86.0	86.3	86.3	86.3	86.3	86.3	86.5	86.5	86.5
≥ 2000	58.1	84.4	85.5	85.5	86.7	86.9	87.6	87.8	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3
≥ 1800	58.2	84.6	85.8	85.8	87.0	87.2	88.1	88.3	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7
≥ 1500	58.4	85.5	86.7	86.8	88.2	88.5	89.6	89.8	90.1	90.3	90.4	90.4	90.4	90.5	90.5	90.5
≥ 1200	58.6	85.7	87.2	87.3	88.8	89.1	90.4	90.6	91.0	91.3	91.4	91.4	91.4	91.5	91.5	91.5
≥ 1000	58.8	86.1	87.7	87.8	89.5	89.8	91.3	91.5	91.9	92.6	92.9	92.9	92.9	93.0	93.0	93.0
≥ 900	58.9	86.2	87.8	88.0	89.7	90.0	91.5	91.8	92.3	92.9	93.3	93.3	93.4	93.5	93.5	93.5
≥ 800	58.9	86.2	88.2	88.7	90.4	90.8	92.3	92.6	93.0	93.7	94.2	94.3	94.4	94.5	94.5	94.5
≥ 700	59.1	86.5	88.4	89.0	90.8	91.1	92.8	93.2	93.9	94.5	95.1	95.2	95.3	95.4	95.4	95.4
≥ 600	59.2	86.7	88.6	89.2	91.0	91.3	93.0	93.7	94.4	95.2	95.7	95.8	96.1	96.2	96.2	96.2
≥ 500	59.5	86.9	88.9	89.6	91.3	91.6	93.5	94.3	95.1	96.1	96.7	96.8	97.1	97.2	97.2	97.2
≥ 400	59.5	86.9	88.9	89.6	91.3	91.6	93.5	94.3	95.1	96.1	96.9	97.0	97.3	97.4	97.4	97.4
≥ 300	59.5	86.9	88.9	89.6	91.6	91.9	94.0	94.7	95.5	96.6	97.4	97.5	97.8	98.0	98.0	98.0
≥ 200	59.5	86.9	88.9	89.8	91.8	92.2	94.2	94.9	95.8	96.9	97.7	97.8	98.4	98.5	98.5	98.6
≥ 100	59.5	86.9	88.9	89.8	91.8	92.2	94.2	94.9	95.9	97.1	98.0	98.1	98.6	98.7	98.7	99.1
≥ 0	59.5	86.9	88.9	89.8	91.8	92.2	94.2	94.9	95.9	97.1	98.1	98.2	98.7	98.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   67-76   DEC

STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING	35.3	43.3	43.4	43.4	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.1	44.1	44.2	44.2
≥ 20000	44.1	55.5	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.7	56.7	56.8	56.8
≥ 18000	44.2	55.6	55.9	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.8	56.8	56.9	56.9
≥ 16000	44.2	55.6	55.9	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.8	56.8	56.9	56.9
≥ 14000	44.4	56.0	56.3	56.3	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.2	57.2	57.3	57.3
≥ 12000	47.7	59.6	59.9	59.9	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.8	60.8	60.9	60.9
≥ 10000	56.3	69.1	69.5	69.5	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.4	70.4	70.5	70.5
≥ 9000	56.6	69.6	69.9	69.9	70.4	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.9	70.9	71.0	71.0
≥ 8000	58.1	71.3	71.6	71.6	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.6	72.6	72.7	72.7
≥ 7000	58.6	72.6	73.2	73.2	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	74.2	74.2	74.3	74.3
≥ 6000	59.2	73.7	74.4	74.4	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.4	75.4	75.5	75.5
≥ 5000	61.2	76.3	77.2	77.3	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.4	78.4	78.5	78.5
≥ 4500	62.2	77.3	78.2	78.3	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.4	79.4	79.5	79.5
≥ 4000	63.4	79.2	80.1	80.2	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.5	81.5	81.6	81.6
≥ 3500	63.8	80.1	81.0	81.1	82.0	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.9	82.9	83.0	83.0
≥ 3000	64.2	81.4	82.3	82.4	83.4	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.4	84.4	84.5	84.5
≥ 2500	64.3	82.7	83.7	83.8	84.8	85.3	85.5	85.6	85.6	85.6	85.6	85.6	85.9	85.9	86.0	86.0
≥ 2000	64.7	83.5	84.5	84.8	85.9	86.3	86.6	86.7	86.7	86.7	86.7	86.7	87.0	87.0	87.1	87.1
≥ 1800	64.9	83.9	84.8	84.9	86.2	86.7	87.1	87.3	87.3	87.3	87.3	87.3	87.6	87.6	87.7	87.7
≥ 1500	65.7	84.8	85.8	85.9	87.5	88.0	88.5	88.9	88.9	88.9	88.9	88.9	89.2	89.2	89.4	89.4
≥ 1200	66.0	85.9	87.1	87.2	89.0	89.5	90.1	90.6	90.8	90.9	91.0	91.0	91.3	91.3	91.4	91.4
≥ 1000	66.2	86.2	87.4	87.5	89.7	90.1	90.8	91.4	91.5	92.2	92.5	92.5	92.8	92.9	93.0	93.0
≥ 900	66.2	86.2	87.4	87.5	89.7	90.1	90.8	91.4	91.5	92.4	92.7	92.7	93.0	93.1	93.2	93.2
≥ 800	66.5	86.6	87.6	88.0	90.1	90.5	91.2	91.8	91.9	92.8	93.2	93.2	93.5	93.7	93.8	93.8
≥ 700	66.6	86.9	88.4	88.7	90.9	91.3	92.2	92.8	92.9	94.4	94.9	94.9	95.3	95.6	95.7	95.8
≥ 600	66.7	87.1	88.7	89.0	91.2	91.7	92.6	93.2	93.3	94.9	95.6	95.6	96.0	96.6	96.8	96.8
≥ 500	66.7	87.3	88.9	89.2	91.4	91.9	92.8	93.5	93.8	95.8	96.6	97.0	97.4	97.5	97.7	97.7
≥ 400	66.7	87.4	89.0	89.4	91.5	92.0	92.9	93.7	93.9	95.9	96.8	97.2	97.7	97.8	98.1	98.1
≥ 300	66.7	87.4	89.0	89.4	91.6	92.2	93.0	93.8	94.0	96.0	97.0	97.4	98.0	98.1	98.4	98.5
≥ 200	66.8	87.5	89.1	89.5	91.7	92.3	93.1	93.9	94.1	96.2	97.2	97.7	98.5	98.7	99.0	99.1
≥ 100	66.8	87.5	89.2	89.6	91.8	92.4	93.2	94.1	94.3	96.5	97.5	98.1	98.8	99.1	99.6	99.7
≥ 0	66.8	87.5	89.2	89.6	91.8	92.4	93.2	94.1	94.3	96.5	97.5	98.1	98.8	99.1	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS   930

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILIT

24112　MALMSTROM AFB MT/GREAT FALLS　67-76　DEC
STATION　STATION NAME　YEARS　MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-11
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥⅛
NO CEILING ≥ 20000	36.8	37.7	37.8	37.8	38.2	38.3	38.3	38.3	38.4	38.6	38.6	38.6	38.8	38.8	38.8	38.
	48.9	50.0	50.2	50.2	50.5	50.6	50.8	50.8	50.9	51.1	51.1	51.1	51.3	51.3	51.3	51
≥ 18000 ≥ 16000	49.2	50.3	50.5	50.5	50.9	51.0	51.1	51.1	51.2	51.4	51.4	51.4	51.6	51.6	51.6	51
	49.4	50.4	50.6	50.6	51.0	51.1	51.2	51.2	51.3	51.5	51.5	51.5	51.7	51.7	51.7	51
≥ 14000 ≥ 12000	50.4	51.5	51.7	51.7	52.0	52.2	52.3	52.3	52.4	52.6	52.6	52.6	52.8	52.8	52.8	52
	56.6	57.6	57.8	57.8	58.2	58.3	58.4	58.4	58.5	58.7	58.7	58.7	58.9	58.9	58.9	58
≥ 10000 ≥ 9000	68.0	69.2	69.5	69.5	69.8	69.9	70.0	70.0	70.1	70.3	70.3	70.3	70.5	70.5	70.5	70
	69.4	70.6	70.9	70.9	71.2	71.3	71.4	71.4	71.5	71.7	71.7	71.7	71.9	71.9	71.9	71
≥ 8000 ≥ 7000	73.3	74.7	74.9	75.1	75.5	75.6	75.7	75.7	75.8	76.0	76.0	76.0	76.2	76.2	76.2	76
	74.3	76.5	76.7	76.8	77.4	77.5	77.7	77.7	77.8	78.1	78.1	78.1	78.3	78.3	78.3	78
≥ 6000 ≥ 5000	75.7	78.0	78.2	78.3	78.9	79.0	79.4	79.4	79.5	79.7	79.7	79.7	79.9	79.9	79.9	79
	77.4	80.3	80.5	80.6	81.5	81.6	82.0	82.0	82.2	82.4	82.4	82.4	82.6	82.7	82.7	82
≥ 4500 ≥ 4000	77.6	80.8	81.1	81.2	82.0	82.2	82.7	82.7	82.8	83.0	83.0	83.0	83.2	83.3	83.3	83
	78.9	82.7	83.1	83.3	84.2	84.3	84.9	84.9	85.1	85.3	85.3	85.4	85.6	85.7	85.7	85
≥ 3500 ≥ 3000	79.1	82.9	83.3	83.5	84.5	84.6	85.4	85.4	85.6	85.8	85.8	85.9	86.1	86.2	86.2	86
	79.2	83.8	84.4	84.6	85.8	86.0	86.8	86.8	87.0	87.2	87.2	87.3	87.5	87.6	87.6	87
≥ 2500 ≥ 2000	79.7	84.5	85.3	85.5	87.0	87.2	88.1	88.5	88.8	89.0	89.0	89.1	89.4	89.5	89.5	89
	79.7	84.6	85.5	85.7	87.3	87.5	88.5	89.0	89.5	89.8	89.8	89.9	90.1	90.2	90.2	90
≥ 1800 ≥ 1500	79.9	85.1	86.0	86.2	87.8	88.1	89.1	89.7	90.1	90.4	90.4	90.5	90.8	90.9	90.9	90
	80.1	85.5	86.6	86.9	88.5	88.7	90.2	91.1	91.5	91.8	91.8	92.2	92.4	92.5	92.5	92
≥ 1200 ≥ 1000	80.1	85.7	86.8	87.1	88.7	88.9	90.4	91.6	92.0	92.5	92.5	92.8	93.0	93.1	93.1	93
	80.1	86.2	87.3	87.6	89.2	89.7	91.2	92.4	93.0	93.5	93.8	94.1	94.3	94.4	94.4	94
≥ 900 ≥ 800	80.1	86.3	87.4	87.7	89.4	89.8	91.3	92.6	93.2	93.8	94.0	94.3	94.5	94.6	94.6	94
	80.2	86.7	87.7	88.1	89.8	90.2	91.7	93.0	93.8	94.3	94.6	94.9	95.2	95.3	95.3	95
≥ 700 ≥ 600	80.2	86.8	87.8	88.4	90.4	90.9	92.4	93.7	94.4	95.5	95.9	96.2	96.5	96.6	96.6	96
	80.2	86.9	88.0	88.5	90.5	91.0	92.6	94.0	95.1	96.5	97.0	97.3	97.5	97.6	97.6	97
≥ 500 ≥ 400	80.2	87.0	88.1	88.6	90.6	91.4	93.0	94.4	95.6	97.1	97.8	98.3	98.5	98.6	98.6	98
	80.2	87.0	88.1	88.6	90.6	91.4	93.0	94.4	95.6	97.1	97.8	98.3	98.7	98.8	98.8	98
≥ 300 ≥ 200	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.7	99.1	99.4	99.4	99
	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	99
≥ 100 ≥ 0	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	99
	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	100

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC　FORM JUL 64　0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112   MALMSTROM AFB MT/GREAT FALLS   67-76   DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	\u2265 10	\u2265 6	\u2265 5	\u2265 4	\u2265 3	\u2265 2½	\u2265 2	\u2265 1½	\u2265 1¼	\u2265 1	\u2265 ¾	\u2265 ⅝	\u2265 ½	\u2265 5·16	\u2265 ¼	\u2265 0
NO CEILING ≥ 20000	36.8	37.7	37.8	37.8	38.2	38.3	38.3	38.3	38.4	38.6	38.6	38.6	38.8	38.8	38.8	38.8
	48.9	50.0	50.2	50.2	50.5	50.6	50.8	50.8	50.9	51.1	51.1	51.1	51.3	51.3	51.3	51.3
≥ 18000 ≥ 16000	49.2	50.3	50.5	50.5	50.9	51.0	51.1	51.1	51.2	51.4	51.4	51.4	51.6	51.6	51.6	51.6
	49.4	50.4	50.6	50.6	51.0	51.1	51.2	51.2	51.3	51.5	51.5	51.5	51.7	51.7	51.7	51.7
≥ 14000 ≥ 12000	50.4	51.5	51.7	51.7	52.0	52.2	52.3	52.3	52.4	52.6	52.6	52.4	52.8	52.8	52.8	52.8
	56.6	57.6	57.8	57.8	58.2	58.3	58.4	58.4	58.5	58.7	58.7	58.7	58.9	58.9	58.9	58.9
≥ 10000 ≥ 9000	68.0	69.2	69.5	69.5	69.8	69.9	70.0	70.0	70.1	70.3	70.3	70.3	70.5	70.5	70.5	70.5
	69.4	70.6	70.9	70.9	71.2	71.3	71.4	71.4	71.5	71.7	71.7	71.7	71.9	71.9	71.9	71.9
≥ 8000 ≥ 7000	73.3	74.7	74.9	75.1	75.5	75.6	75.7	75.7	75.8	76.0	76.0	76.0	76.2	76.2	76.2	76.2
	74.3	76.5	76.7	76.8	77.4	77.5	77.7	77.7	77.8	78.1	78.1	78.1	78.3	78.3	78.3	78.3
≥ 6000 ≥ 5000	75.7	78.0	78.2	78.3	78.9	79.0	79.4	79.4	79.5	79.7	79.7	79.7	79.9	79.9	79.9	79.9
	77.4	80.3	80.5	80.6	81.5	81.6	82.0	82.0	82.2	82.4	82.4	82.4	82.6	82.7	82.7	82.7
≥ 4500 ≥ 4000	77.6	80.8	81.1	81.2	82.0	82.2	82.7	82.7	82.8	83.0	83.0	83.0	83.2	83.3	83.3	83.3
	78.9	82.7	83.1	83.3	84.2	84.3	84.9	84.9	85.1	85.3	85.3	85.4	85.6	85.7	85.7	85.7
≥ 3500 ≥ 3000	79.1	82.9	83.3	83.5	84.5	84.6	85.4	85.4	85.6	85.8	85.8	85.9	86.1	86.2	86.2	86.2
	79.2	83.8	84.4	84.6	85.8	86.0	86.8	86.8	87.0	87.2	87.2	87.3	87.5	87.6	87.6	87.6
≥ 2500 ≥ 2000	79.7	84.5	85.3	85.5	87.0	87.2	88.1	88.5	88.8	89.0	89.0	89.1	89.4	89.5	89.5	89.5
	79.7	84.6	85.5	85.7	87.3	87.5	88.5	89.0	89.5	89.8	89.8	89.9	90.1	90.2	90.2	90.2
≥ 1800 ≥ 1500	79.9	85.1	86.0	86.2	87.8	88.1	89.1	89.7	90.1	90.4	90.4	50.5	90.8	90.9	90.9	90.9
	80.1	85.5	86.6	86.9	88.5	88.7	90.2	91.1	91.5	91.8	91.8	92.2	92.4	92.5	92.5	92.5
≥ 1200 ≥ 1000	80.1	85.7	86.8	87.1	88.7	88.9	90.4	91.6	92.0	92.5	92.5	92.8	93.0	93.1	93.1	93.1
	80.1	86.2	87.3	87.6	89.2	89.7	91.2	92.4	93.0	93.5	93.8	94.1	94.3	94.4	94.4	94.4
≥ 900 ≥ 800	80.1	86.3	87.4	87.7	89.4	89.8	91.3	92.6	93.2	93.8	94.0	94.3	94.5	94.6	94.6	94.6
	80.2	86.7	87.7	88.1	89.8	90.2	91.7	93.0	93.8	94.3	94.6	94.9	95.2	95.3	95.3	95.3
≥ 700 ≥ 600	80.2	86.8	87.8	88.4	90.4	90.9	92.4	93.7	94.4	95.5	95.9	96.2	96.5	96.6	96.6	96.6
	80.2	86.9	88.0	88.5	90.5	91.0	92.6	94.0	95.1	96.5	97.0	97.3	97.5	97.6	97.6	97.6
≥ 500 ≥ 400	80.2	87.0	88.1	88.6	90.6	91.4	93.0	94.4	95.6	97.1	97.8	98.3	98.5	98.6	98.6	98.6
	80.2	87.0	88.1	88.6	90.6	91.4	93.0	94.4	95.6	97.1	97.8	98.3	98.7	98.8	98.8	98.8
≥ 300 ≥ 200	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.7	99.1	99.4	99.4	99.4
	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	99.7
≥ 100 ≥ 0	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	99.7
	80.2	87.0	88.2	88.7	90.8	91.5	93.2	94.7	95.9	97.4	98.2	98.8	99.2	99.7	99.7	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 67-76 DEC
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5 16	≥¼	≥0
NO CEILING ≥20000	41.9	42.3	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8
	51.8	52.5	53.0	53.1	53.1	53.1	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥18000 ≥16000	51.8	52.5	53.0	53.1	53.1	53.1	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
	51.8	52.5	53.0	53.1	53.1	53.1	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥14000 ≥12000	52.0	52.7	53.2	53.3	53.3	53.3	53.3	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5
	57.4	58.1	58.6	58.7	58.7	58.7	58.7	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥10000 ≥9000	69.2	70.4	71.1	71.2	71.2	71.2	71.2	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4
	70.9	72.0	72.7	72.8	72.8	72.8	72.8	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥8000 ≥7000	74.6	75.8	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8
	75.9	77.4	78.1	78.2	78.4	78.5	78.6	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥6000 ≥5000	77.8	79.6	80.2	80.3	80.5	80.6	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0
	79.2	81.3	81.9	82.0	82.3	82.4	82.7	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥4500 ≥4000	79.9	82.3	82.9	83.0	83.2	83.3	83.7	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1
	81.2	84.2	85.1	85.3	86.0	86.2	86.8	87.2	87.4	87.5	87.5	87.7	87.7	87.7	87.7	87.7
≥3500 ≥3000	81.4	84.5	85.4	85.6	86.3	86.6	87.1	87.5	87.8	88.0	88.0	88.2	88.2	38.2	88.2	88.2
	81.8	85.1	85.9	86.1	87.1	87.3	87.8	88.3	88.6	88.7	88.7	88.9	38.9	88.9	88.9	88.9
≥2500 ≥2000	81.9	85.4	86.3	86.7	87.6	87.8	88.4	88.9	89.4	89.6	89.6	89.8	89.8	89.8	89.8	89.8
	82.3	85.9	87.1	87.5	88.6	88.8	89.4	89.9	90.3	90.5	90.5	90.8	90.8	90.8	90.8	90.8
≥1800 ≥1500	82.3	86.1	87.3	87.7	88.8	89.0	89.6	90.1	90.6	90.9	90.9	91.1	91.1	91.1	91.1	91.1
	82.3	86.3	87.7	88.2	89.8	90.0	90.5	91.3	91.8	92.2	92.2	92.4	92.4	92.4	92.4	92.4
≥1200 ≥1000	82.3	86.5	87.8	88.3	90.0	90.2	90.9	91.8	92.6	92.9	92.9	93.1	93.1	93.1	93.1	93.1
	82.4	86.7	88.2	88.6	90.5	90.8	91.6	92.8	93.8	94.4	94.5	94.7	94.9	94.9	94.9	94.9
≥900 ≥800	82.4	86.8	88.3	88.7	90.6	90.9	91.8	93.0	94.1	94.7	94.8	95.1	95.3	95.3	95.3	95.3
	82.5	87.1	88.6	89.0	91.0	91.2	92.3	93.8	94.9	95.6	95.7	95.9	96.1	96.1	96.1	96.1
≥700 ≥600	82.5	87.3	88.9	89.4	91.4	91.6	92.7	94.3	95.5	96.1	96.3	96.6	96.8	96.8	96.8	96.8
	82.6	87.4	89.0	89.5	91.5	91.7	93.0	94.7	96.2	97.0	97.4	97.6	98.0	98.0	98.0	98.0
≥500 ≥400	82.7	87.5	89.1	89.6	91.6	91.8	93.1	94.8	96.3	97.2	97.7	98.0	98.5	98.6	98.6	98.6
	82.7	87.5	89.1	89.6	91.6	91.8	93.1	94.9	96.5	97.3	97.8	98.1	98.7	98.8	98.8	98.8
≥300 ≥200	82.7	87.5	89.1	89.6	91.6	91.8	93.1	94.9	96.5	97.3	98.0	98.2	98.8	98.9	98.9	98.9
	82.7	87.5	89.1	89.6	91.6	91.8	93.1	94.9	96.5	97.5	98.2	98.4	99.0	99.1	99.1	99.1
≥100 ≥0	82.7	87.5	89.1	89.6	91.6	91.8	93.2	95.1	96.6	97.6	98.2	98.5	99.1	99.6	99.7	99.7
	82.7	87.5	89.1	89.6	91.6	91.8	93.2	95.1	96.6	97.6	98.3	98.5	99.1	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS   67-76   DEC

STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700 HOURS LST

CEILING FEET	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	39.9	41.0	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
	51.8	53.1	53.5	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 18000 ≥ 16000	52.0	53.3	53.7	53.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
	52.1	53.4	53.8	5?.?	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 14000 ≥ 12000	52.4	53.7	54.1	54.	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
	59.2	60.6	61.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 10000 ≥ 9000	68.8	70.7	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
	69.8	72.0	72.6	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 8000 ≥ 7000	74.7	77.2	77.7	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
	75.8	78.5	79.0	79.0	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 6000 ≥ 5000	77.6	80.3	80.8	80.8	81.3	81.3	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
	79.8	82.6	83.3	83.3	84.1	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4500 ≥ 4000	80.1	83.0	83.7	83.7	84.5	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
	81.6	85.3	86.1	86.2	87.0	87.1	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 3500 ≥ 3000	81.8	85.5	86.3	86.4	87.2	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
	82.1	86.4	87.3	87.4	88.3	88.4	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2500 ≥ 2000	82.6	87.0	87.9	88.1	89.0	89.1	89.3	89.3	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5
	83.1	87.8	88.9	89.1	90.2	90.3	90.7	90.7	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1800 ≥ 1500	83.1	87.8	88.9	89.1	90.2	90.3	90.7	90.7	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2
	83.1	88.2	89.6	89.8	91.0	91.1	91.5	91.7	91.9	92.1	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1200 ≥ 1000	83.3	88.5	90.1	90.3	91.5	91.7	92.1	92.4	92.7	93.0	93.1	93.1	93.1	93.1	93.1	93.1
	83.5	88.7	90.4	90.7	91.9	92.1	92.9	93.4	94.0	95.0	95.3	95.3	95.5	95.5	95.5	95.5
≥ 900 ≥ 800	83.6	88.8	90.5	90.9	92.1	92.4	93.1	93.9	94.5	95.6	96.0	96.0	96.2	96.2	96.2	96.2
	83.7	88.9	90.6	91.0	92.2	92.5	93.2	94.2	94.9	96.0	96.6	96.6	96.8	96.8	96.8	96.8
≥ 700 ≥ 600	83.7	88.9	90.7	91.1	92.4	92.6	93.3	94.5	95.3	96.6	97.2	97.2	97.4	97.4	97.4	97.4
	83.7	89.0	90.9	91.2	92.5	92.8	93.5	94.9	95.7	97.1	97.7	97.8	98.2	98.2	98.2	98.2
≥ 500 ≥ 400	83.7	89.0	90.9	91.2	92.6	92.9	93.6	95.0	95.8	97.4	98.1	98.2	98.5	98.5	98.5	98.5
	83.7	89.0	90.9	91.2	92.6	92.9	93.6	95.0	95.9	97.6	98.3	98.4	98.7	98.8	98.8	98.8
≥ 300 ≥ 200	83.7	89.1	91.0	91.3	92.7	93.0	93.8	95.2	96.0	97.7	98.5	98.6	98.9	99.0	99.0	99.0
	83.7	89.1	91.0	91.3	92.7	93.0	93.8	95.2	96.0	97.8	98.7	98.8	99.2	99.4	99.4	99.4
≥ 100 ≥ 0	83.7	89.1	91.0	91.3	92.7	93.0	93.8	95.2	96.0	98.0	98.8	98.9	99.4	99.6	99.7	99.7
	83.7	89.1	91.0	91.3	92.7	93.0	93.8	95.2	96.0	98.0	98.8	98.9	99.4	99.6	99.7	100.0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS   929

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000 HOURS LST

CEILING FEET	\ VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5/16	≥¼	≥0
NO CEILING	30.9	43.4	43.9	43.9	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 20000	36.8	54.8	55.3	55.3	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 18000	36.9	54.9	55.4	55.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 16000	37.1	55.2	55.6	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 14000	37.7	55.8	56.2	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 12000	40.2	58.9	59.4	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 10000	48.2	69.4	69.8	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 9000	49.0	70.9	71.3	71.3	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 8000	52.3	75.1	75.5	75.5	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 7000	52.8	75.9	76.3	76.3	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 6000	54.5	77.7	78.2	78.2	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 5000	56.6	80.8	81.3	81.3	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4500	56.9	81.3	81.8	81.8	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000	57.6	82.5	83.0	83.0	84.0	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 3500	58.4	83.3	83.9	83.9	84.9	85.2	85.2	85.4	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 3000	58.8	84.4	84.9	84.9	86.2	86.8	86.9	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2500	59.1	85.1	85.6	85.7	87.1	87.7	88.0	88.2	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2000	59.9	86.5	87.0	87.2	89.2	90.1	90.6	90.9	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800	59.9	86.9	87.7	88.1	90.3	91.3	91.8	92.0	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	60.5	87.8	88.8	89.2	91.5	92.6	93.4	93.7	93.8	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1200	60.6	88.3	89.5	89.9	92.3	93.3	94.2	94.5	94.6	95.4	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	60.6	88.5	89.7	90.1	92.8	94.0	94.8	95.3	95.4	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	60.6	88.5	89.7	90.1	93.0	94.3	95.2	95.7	95.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	60.6	88.5	89.7	90.1	93.0	94.3	95.2	95.7	95.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700	60.6	88.5	89.8	90.2	93.1	94.4	95.3	95.8	95.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3
≥ 600	60.6	88.5	89.8	90.2	93.2	94.5	95.4	96.0	96.1	97.4	97.6	97.7	97.7	97.7	97.7	97.7
≥ 500	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.3	96.5	97.7	98.0	98.1	98.1	98.1	98.1	98.1
≥ 400	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.5	96.6	98.2	98.4	98.5	98.5	98.5	98.5	98.5
≥ 300	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.6	96.9	98.5	98.7	98.8	98.8	98.8	98.8	98.8
≥ 200	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.6	96.9	98.9	99.1	99.2	99.5	99.5	99.6	99.6
≥ 100	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.6	97.0	99.0	99.5	99.6	99.8	99.8	99.9	99.9
≥ 0	60.6	88.5	89.9	90.3	93.4	94.8	95.7	96.6	97.0	99.0	99.5	99.6	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   930

CEILING VERSUS VISIBILITY

24112 STATION   MALMSTRUM AFB MT/GREAT FALLS STATION NAME   67-76 YEARS   DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300 HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≤4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	28.9	42.5	42.	42.9	43.2	43.3	43.5	43.5	43.5	43.8	43.8	43.8	43.9	43.9	44.0	44.0
	37.2	55.4	55.8	55.9	56.2	56.3	56.7	56.7	56.7	56.9	56.9	56.9	57.0	57.0	57.1	57.1
≥ 18000 ≥ 16000	37.6	55.8	56.2	56.3	56.7	56.8	57.1	57.1	57.1	57.3	57.3	57.3	57.4	57.4	57.5	57.5
	37.7	55.9	56.3	56.5	56.8	56.9	57.2	57.2	57.2	57.4	57.4	57.4	57.5	57.5	57.6	57.6
≥ 14000 ≥ 12000	38.1	56.2	56.7	56.8	57.1	57.2	57.5	57.5	57.5	57.7	57.7	57.7	57.8	57.8	58.0	58.0
	40.8	59.5	59.9	60.0	60.3	60.4	60.8	60.8	60.8	61.0	61.0	61.0	61.1	61.1	61.2	61.2
≥ 10000 ≥ 9000	48.0	68.7	69.1	69.2	69.6	69.7	70.0	70.0	70.0	70.2	70.2	70.2	70.3	70.3	70.4	70.4
	48.8	70.0	70.4	70.5	70.9	71.0	71.3	71.3	71.3	71.5	71.5	71.5	71.6	71.6	71.7	71.7
≥ 8000 ≥ 7000	50.9	72.4	72.8	72.9	73.2	73.3	73.7	73.7	73.7	73.9	73.9	73.9	74.0	74.0	74.1	74.1
	51.6	73.7	74.1	74.2	74.5	74.6	74.9	74.9	74.9	75.2	75.2	75.2	75.3	75.3	75.4	75.4
≥ 6000 ≥ 5000	52.4	75.6	76.1	76.2	76.6	76.7	77.0	77.0	77.0	77.2	77.2	77.2	77.3	77.3	77.4	77.4
	53.5	77.7	78.3	78.4	78.9	79.0	79.4	79.4	79.4	79.6	79.6	79.6	79.7	79.7	79.8	79.8
≥ 4500 ≥ 4000	54.4	79.0	79.6	79.7	80.8	80.9	81.2	81.2	81.2	81.4	81.4	81.4	81.5	81.5	81.6	81.6
	56.0	81.8	82.4	82.5	83.5	83.7	84.2	84.2	84.2	84.4	84.4	84.4	84.5	84.5	84.6	84.6
≥ 3500 ≥ 3000	56.8	83.2	83.8	83.9	84.9	85.1	85.8	85.8	85.8	86.0	86.0	86.0	86.1	86.1	86.2	86.2
	57.4	84.3	84.9	85.2	86.3	86.5	87.2	87.2	87.2	87.4	87.4	87.4	87.7	87.7	87.8	87.8
≥ 2500 ≥ 2000	57.8	85.3	85.9	86.2	87.4	87.5	88.3	88.3	88.3	88.5	88.5	88.5	88.8	88.8	88.9	88.9
	58.2	86.2	87.1	87.4	88.8	89.0	89.8	89.8	89.8	90.0	90.0	90.0	90.3	90.3	90.4	90.4
≥ 1800 ≥ 1500	58.3	87.0	87.8	88.2	89.6	90.0	90.8	90.8	90.8	91.0	91.0	91.0	91.3	91.3	91.4	91.4
	58.5	87.7	88.7	89.0	90.5	91.0	92.0	92.0	92.0	92.3	92.3	92.3	92.6	92.6	92.7	92.7
≥ 1200 ≥ 1000	58.6	88.2	89.1	89.5	91.0	91.4	92.6	92.8	92.9	93.2	93.2	93.2	93.5	93.5	93.7	93.7
	58.6	88.5	89.5	89.8	91.4	91.8	93.2	93.5	93.8	94.2	94.5	94.5	94.8	94.8	94.9	94.9
≥ 900 ≥ 800	58.6	88.5	89.5	89.8	91.4	91.8	93.3	93.7	94.0	94.5	94.8	94.8	95.2	95.2	95.3	95.3
	58.6	88.5	89.5	89.8	91.4	91.8	93.3	93.7	94.0	94.6	94.9	95.3	95.6	95.6	95.7	95.7
≥ 700 ≥ 600	58.6	88.6	89.7	90.0	91.7	92.3	93.9	94.2	94.5	95.2	95.5	95.8	96.1	96.1	96.2	96.2
	58.6	88.8	89.9	90.2	92.0	92.6	94.2	94.6	94.9	95.7	96.2	96.6	97.0	97.0	97.1	97.1
≥ 500 ≥ 400	58.7	89.0	90.1	90.4	92.3	92.8	94.4	94.8	95.2	96.1	96.7	97.0	97.4	97.4	97.5	97.5
	58.7	89.1	90.2	90.5	92.4	92.9	94.5	95.2	95.8	96.9	97.7	98.1	98.5	98.5	98.6	98.6
≥ 300 ≥ 200	58.7	89.1	90.2	90.5	92.4	92.9	94.5	95.2	95.9	97.0	98.0	98.3	98.7	98.7	98.8	98.8
	58.7	89.1	90.2	90.5	92.5	93.0	94.7	95.4	96.1	97.5	98.6	98.9	99.5	99.5	99.7	99.7
≥ 100 ≥ 0	58.7	89.1	90.2	90.5	92.5	93.1	94.8	95.5	96.2	97.6	98.8	99.1	99.7	99.7	99.9	100.0
	58.7	89.1	90.2	90.5	92.5	93.1	94.8	95.5	96.2	97.6	98.8	99.1	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS   930

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

2×112   MALMSTROM AFB MT/GREAT FALLS   67-76   DEC
STATION   STATION NAME   YEARS   MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS EST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅝	≥½	≥5 16	≥¼	≥0
NO CEILING ≥ 20000	34.3	42.6	42.9	42.9	43.2	43.2	43.3	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.6	43.6
	43.3	54.6	55.0	55.0	55.3	55.4	55.5	55.5	55.5	55.6	55.6	55.6	55.7	55.8	55.8	55.8
≥ 18000	43.5	54.8	55.2	55.2	55.5	55.6	55.7	55.7	55.7	55.8	55.8	55.8	55.9	55.9	56.0	56.0
≥ 16000	43.6	54.9	55.3	55.3	55.6	55.6	55.8	55.8	55.8	55.9	55.9	55.9	56.0	56.0	56.1	56.1
≥ 14000	44.0	55.4	55.8	55.8	56.1	56.1	56.3	56.3	56.3	56.4	56.4	56.4	56.5	56.5	56.5	56.6
≥ 12000	48.0	59.6	60.0	60.0	60.3	60.3	60.5	60.5	60.5	60.6	60.6	60.6	60.7	60.7	60.8	60.8
≥ 10000	57.1	69.7	70.1	70.2	70.5	70.5	70.6	70.7	70.7	70.7	70.7	70.7	70.9	70.9	70.9	71.0
≥ 9000	57.9	70.8	71.3	71.3	71.6	71.6	71.8	71.8	71.8	71.9	71.9	71.9	72.0	72.0	72.1	72.1
≥ 8000	60.8	74.0	74.4	74.5	74.8	74.8	75.0	75.0	75.0	75.1	75.1	75.1	75.2	75.3	75.3	75.3
≥ 7000	61.6	75.4	75.8	75.9	76.3	76.4	76.6	76.6	76.6	76.7	76.7	76.7	76.8	76.9	76.9	76.9
≥ 6000	62.9	77.0	77.5	77.5	78.0	78.1	78.3	78.3	78.3	78.4	78.4	78.4	78.5	78.5	78.6	78.6
≥ 5000	64.6	79.5	80.1	80.1	80.8	80.9	81.1	81.2	81.2	81.3	81.3	81.3	81.4	81.4	81.5	81.5
≥ 4500	65.2	80.3	80.9	80.9	81.7	81.8	82.0	82.1	82.1	82.2	82.2	82.2	82.3	82.3	82.4	82.4
≥ 4000	66.4	82.3	83.0	83.1	83.9	84.0	84.3	84.4	84.5	84.6	84.6	84.6	84.8	84.8	84.9	84.9
≥ 3500	66.9	83.0	83.7	83.8	84.6	84.8	85.2	85.3	85.5	85.6	85.6	85.7	85.8	85.8	85.9	85.9
≥ 3000	67.3	83.9	84.7	84.8	85.8	86.0	86.5	86.6	86.8	86.8	86.9	86.9	87.1	87.1	87.2	87.2
≥ 2500	67.6	84.7	85.5	85.7	86.7	87.0	87.5	87.7	87.9	88.0	88.0	88.0	88.2	88.3	88.3	88.3
≥ 2000	68.0	85.5	86.5	86.7	88.0	88.3	88.9	89.2	89.4	89.6	89.6	89.6	89.8	89.8	89.9	89.9
≥ 1800	68.0	85.8	86.9	87.1	88.5	88.8	89.5	89.7	90.0	90.2	90.2	90.2	90.4	90.4	90.5	90.5
≥ 1500	68.3	86.5	87.6	87.9	89.5	89.9	90.7	91.1	91.4	91.6	91.7	91.7	91.9	91.9	92.0	92.0
≥ 1200	68.5	86.9	88.3	88.5	90.2	90.6	91.5	92.1	92.4	92.8	92.8	92.9	93.0	93.1	93.1	93.1
≥ 1000	68.6	87.2	88.7	88.9	90.8	91.2	92.3	92.9	93.4	94.0	94.2	94.3	94.5	94.6	94.6	94.6
≥ 900	68.6	87.3	88.7	89.0	90.9	91.3	92.4	93.1	93.6	94.3	94.6	94.7	94.9	94.9	95.0	95.0
≥ 800	68.7	87.4	88.9	89.2	91.2	91.6	92.7	93.5	94.0	94.8	95.1	95.3	95.5	95.6	95.6	95.6
≥ 700	68.7	87.6	89.2	89.6	91.6	92.1	93.2	94.1	94.6	95.6	95.9	96.2	96.4	96.5	96.5	96.5
≥ 600	68.8	87.7	89.3	89.7	91.7	92.3	93.5	94.5	95.1	96.2	96.6	96.9	97.2	97.3	97.3	97.4
≥ 500	68.9	87.9	89.5	90.0	92.0	92.6	93.8	94.8	95.5	96.7	97.3	97.5	97.9	98.0	98.0	98.1
≥ 400	68.9	87.9	89.6	90.0	92.0	92.6	93.8	94.9	95.7	96.9	97.6	97.8	98.3	98.3	98.4	98.5
≥ 300	68.9	87.9	89.6	90.0	92.1	92.7	93.9	95.1	95.8	97.1	97.8	98.1	98.5	98.6	98.7	98.8
≥ 200	68.9	88.0	89.6	90.1	92.2	92.7	94.0	95.1	96.0	97.4	98.1	98.4	99.0	99.1	99.2	99.3
≥ 100	68.9	88.0	89.6	90.1	92.2	92.8	94.0	95.2	96.0	97.5	98.3	98.6	99.2	99.4	99.5	99.7
≥ 0	68.9	88.0	89.6	90.1	92.2	92.8	94.0	95.2	96.0	97.5	98.3	98.6	99.2	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS   7439

CEILING VERSUS VISIBILITY

24112 MALMSTROM AFB MT/GREAT FALLS 67-77 ALL
STATION — STATION NAME — YEARS — MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥⅜	≥½	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	46.8	52.6	52.7	52.7	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0
	54.9	62.2	62.4	62.4	62.5	62.6	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000 ≥ 16000	55.1	62.4	62.6	62.6	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0
	55.3	62.6	62.7	62.8	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1
≥ 14000 ≥ 12000	56.1	63.5	63.6	63.7	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0
	60.2	67.8	68.0	68.0	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.4
≥ 10000 ≥ 9000	66.3	74.6	74.8	74.9	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2
	67.2	75.7	75.9	75.9	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3
≥ 8000 ≥ 7000	69.4	78.1	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.8
	70.7	79.6	79.8	79.8	80.0	80.0	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 6000 ≥ 5000	72.5	81.6	81.8	81.9	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
	74.7	84.2	84.4	84.5	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0
≥ 4500 ≥ 4000	75.5	85.2	85.5	85.5	85.8	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
	77.1	87.2	87.5	87.6	87.9	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.3
≥ 3500 ≥ 3000	77.8	88.1	88.5	88.6	88.9	89.0	89.1	89.2	89.2	89.3	89.3	89.3	89.3	89.4	89.4	89.4
	78.4	89.0	89.5	89.6	90.0	90.1	90.3	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.6
≥ 2500 ≥ 2000	79.0	89.9	90.4	90.5	91.0	91.1	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.6	91.6
	79.6	90.8	91.4	91.6	92.2	92.3	92.5	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	93.0
≥ 1800 ≥ 1500	79.7	91.1	91.7	91.9	92.5	92.7	92.9	93.1	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.3
	80.1	91.8	92.5	92.8	93.4	93.6	93.9	94.1	94.2	94.3	94.4	94.4	94.4	94.4	94.5	94.5
≥ 1200 ≥ 1000	80.4	92.4	93.2	93.5	94.2	94.5	94.8	95.1	95.2	95.4	95.4	95.4	95.5	95.5	95.5	95.5
	80.6	92.8	93.7	94.0	94.8	95.1	95.5	95.8	96.0	96.3	96.3	96.4	96.4	96.4	96.5	96.5
≥ 900 ≥ 800	80.7	93.0	93.9	94.2	95.0	95.3	95.7	96.1	96.3	96.5	96.6	96.7	96.7	96.7	96.8	96.8
	80.7	93.1	94.1	94.4	95.2	95.5	96.0	96.4	96.6	96.9	97.0	97.0	97.1	97.1	97.2	97.2
≥ 700 ≥ 600	80.8	93.3	94.3	94.6	95.5	95.8	96.3	96.8	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.7
	80.9	93.5	94.5	94.9	95.8	96.1	96.6	97.1	97.4	97.8	97.9	98.0	98.1	98.1	98.2	98.2
≥ 500 ≥ 400	80.9	93.6	94.7	95.0	96.0	96.4	96.9	97.5	97.7	98.2	98.4	98.5	98.6	98.6	98.7	98.7
	81.0	93.6	94.8	95.1	96.1	96.5	97.1	97.6	97.9	98.4	98.7	98.8	98.9	99.0	99.0	99.1
≥ 300 ≥ 200	81.0	93.7	94.8	95.2	96.3	96.7	97.3	97.9	98.2	98.7	99.0	99.1	99.3	99.3	99.4	99.5
	81.0	93.7	94.9	95.3	96.3	96.7	97.3	98.0	98.3	98.9	99.1	99.3	99.5	99.5	99.6	99.7
≥ 100 ≥ 0	81.0	93.7	94.9	95.3	96.3	96.8	97.4	98.0	98.3	98.9	99.2	99.3	99.5	99.6	99.7	99.9
	81.0	93.7	94.9	95.3	96.3	96.8	97.4	98.0	98.3	98.9	99.2	99.3	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 87664

PART E   PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

* 1. <u>Cumulative percentage frequency of occurrence</u> - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

   a. Daily maximum temperatures
   b. Daily minimum temperatures
   c. Daily mean temperatures

   NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

* 2. <u>Extreme values</u> - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

   a. Extreme maximum temperature
   b. Extreme minimum temperature

   NOTE: The following symbols are used in the extreme data blocks:

   (1) * indicates the extreme was selected from a month with one or more days missing.

   (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

3. <u>Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.</u>
This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

    a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

    NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

    b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), means $(\bar{X})$, and standard deviations (σx). The number of observations used in the computation for each element is also shown.

    c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

    NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. <u>Means and standard deviations</u> - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.

5. <u>Cumulative percentage frequency of occurrence of relative humidity</u> - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

    a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

    b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE   MAXIMUM
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB.	MAR	APR	MAY	JUN	JUL.	AUG	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 105								.2					.0
≥ 100							.8	.7					.1
≥ 95						.1	5.1	5.1	.4				.9
≥ 90					.2	3.1	21.1	20.7	3.4				4.1
≥ 85				.1	2.4	10.7	44.1	39.3	10.9	.4			9.1
≥ 80				1.9	8.8	24.6	67.1	58.4	23.5	3.1			15.8
≥ 75			.1	4.6	18.3	40.7	82.7	74.8	38.9	11.3	.1		22.8
≥ 70			1.1	11.6	32.6	60.0	92.1	88.1	54.2	23.1	1.2		30.5
≥ 65		.6	3.7	19.9	49.9	76.4	96.8	94.3	66.8	35.7	4.0		37.6
≥ 60	.9	2.5	9.1	32.3	65.8	88.1	98.9	97.8	78.4	49.5	11.2	1.1	44.9
≥ 55	3.7	8.6	18.9	47.6	81.5	95.9	99.9	99.4	87.5	64.7	23.2	5.5	53.3
≥ 50	10.0	20.4	30.8	63.9	90.4	99.4	100.0	100.0	92.8	77.6	38.1	16.8	61.9
≥ 45	22.5	34.5	47.5	76.6	96.2	99.9			96.1	87.0	53.9	31.7	70.6
≥ 40	38.5	53.7	62.1	86.7	98.6	100.0			98.3	91.9	68.5	50.2	79.1
≥ 35	52.3	65.0	72.3	92.2	99.5				99.8	95.5	81.2	63.5	85.2
≥ 30	60.9	73.3	80.3	97.1	99.9				100.0	98.4	87.5	72.2	89.2
≥ 25	67.5	80.5	85.9	99.0	100.0					99.2	90.8	78.5	91.8
≥ 20	74.3	84.8	90.2	99.5						99.9	92.9	84.6	93.9
≥ 15	78.8	89.5	93.0	99.7						100.0	94.9	88.0	95.3
≥ 10	82.0	92.7	95.9	100.0							96.9	90.9	96.5
≥ 5	85.2	95.9	97.1								97.9	94.3	97.5
≥ 0	88.6	98.7	98.2								99.3	96.8	98.4
≥ -5	92.4	99.7	99.5								99.7	98.4	99.1
≥ -10	95.8	99.9	99.7								100.0	99.4	99.6
≥ -15	98.3	100.0	100.0									99.7	99.8
≥ -20	99.8											99.9	100.0
≥ -25	100.0											100.0	100.0
≥													
≥													
≥													
≥													
≥													
≥													
≥													
≥													
MEAN	29.5	37.0	41.1	53.6	64.2	71.9	82.4	80.9	69.5	58.8	44.0	35.5	55.7
S D	19.157	15.139	15.567	12.696	11.025	9.906	8.459	5.930	12.595	12.847	14.225	15.645	22.069
TOTAL OBS	992	904	992	960	992	960	992	992	960	992	960	992	11688

USAFETAC FORM JUL 64 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE   MINIMUM
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 70							.6	.3					.1
≥ 65						.3	4.4	2.7	.2				.7
≥ 60					.4	2.9	20.8	14.9	1.8	.2			3.5
≥ 55				.1	3.1	18.3	49.5	41.3	10.8	1.0			10.5
≥ 50		.1	.1	1.1	13.4	47.8	83.4	75.9	27.3	6.6	1.1		21.6
≥ 45	.3	.4	.7	6.6	33.4	78.4	95.5	94.7	52.0	19.7	4.3	1.1	32.5
≥ 40	3.7	3.4	3.8	16.5	61.1	93.3	99.5	99.4	75.6	39.1	11.9	6.5	43.0
≥ 35	10.2	9.4	12.7	37.3	84.0	98.7	100.0	100.0	88.7	58.9	25.4	14.1	53.5
≥ 33	13.4	14.5	18.2	47.8	90.9	99.3			92.5	66.6	32.4	18.1	58.0
≥ 30	20.0	23.3	30.3	64.0	95.1	99.9			96.1	77.5	41.6	25.6	64.7
≥ 25	30.7	38.2	50.5	82.1	99.1	100.0			99.8	89.9	58.4	38.8	74.1
≥ 20	40.7	52.6	66.2	92.6	99.6				100.0	96.3	72.0	51.7	81.1
≥ 15	48.8	61.6	75.6	96.8	99.9					98.8	80.5	62.8	85.5
≥ 10	55.8	70.0	80.7	98.6	100.0					99.6	87.1	70.5	88.6
≥ 5	61.5	76.5	85.9	99.2							90.3	76.7	90.9
≥ 0	69.0	83.8	90.2	99.6						99.9	93.7	83.1	93.3
≥ -5	75.6	89.6	93.2	99.8				.		100.0	96.0	88.6	95.2
≥ -10	82.5	95.4	96.2	100.0							97.6	93.4	97.1
≥ -15	88.3	98.8	97.7								99.2	96.1	98.3
≥ -20	92.9	99.6	99.2								99.8	98.2	99.1
≥ -25	96.4	100.0	99.7								100.0	99.4	99.6
≥ -30	98.7		99.9									99.5	99.8
≥ -35	99.9		100.0									99.7	100.0
≥ -40	100.0											99.9	100.0
≥ -45												100.0	100.0
≥													
≥													
≥													
≥													
≥													
≥													
≥													
≥													
≥													
MEAN	10.6	11.1	21.0	31.7	41.4	49.0	54.6	53.4	44.6	36.3	24.9	17.2	33.5
S.D	19.580	15.128	14.112	8.638	7.097	6.073	5.797	5.718	7.761	9.219	13.807	16.573	18.752
TOTAL OBS	992	904	992	960	992	960	992	992	960	992	960	992	11688

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

DAILY TEMPERATURES

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN	FEB	MAR	APR.	MAY	JUN	JUL.	AUG.	SEP	OCT.	NOV.	DEC.	ANNUAL
≥ 85							.4	.2					.1
≥ 80						.2	2.9	2.1					.4
≥ 75						1.9	17.8	15.9	1.5				3.1
≥ 70					1.7	13.1	47.1	38.6	9.6	.3			9.3
≥ 65				.5	9.1	30.9	74.7	66.1	23.4	3.3			17.5
≥ 60			.2	4.1	22.3	53.7	92.3	87.8	43.9	12.0	.8		26.6
≥ 55		.3	1.1	11.9	42.7	80.4	98.1	96.8	63.5	28.3	3.5	.1	35.8
≥ 50	1.3	2.2	5.8	25.5	65.6	94.4	100.0	99.6	79.7	46.2	10.9	2.4	44.7
≥ 45	5.1	8.0	14.4	43.7	85.6	99.4		100.0	90.4	62.9	22.2	9.0	53.6
≥ 40	13.9	19.9	29.8	64.7	95.3	99.8			95.1	79.7	40.2	21.3	63.5
≥ 35	26.4	37.7	50.4	81.7	98.6	100.0			98.5	89.1	56.4	35.9	73.0
≥ 30	38.7	53.2	64.5	91.2	99.6				100.0	95.0	71.0	50.0	80.4
≥ 25	49.5	62.9	74.1	96.4	99.9					98.3	82.3	62.3	85.5
≥ 20	58.7	72.0	81.5	98.7	100.0					99.2	87.9	71.7	89.2
≥ 15	65.1	79.8	86.5	99.4					.	99.7	91.4	79.1	91.8
≥ 10	72.9	85.7	90.9	99.6						99.9	93.7	84.3	93.9
≥ 5	77.8	90.6	94.0	99.7						100.0	96.1	89.0	95.6
≥ 0	82.6	94.1	95.9	100.0							97.5	92.9	96.9
≥ -5	87.2	97.8	97.6								99.0	95.9	98.1
≥ -10	90.9	99.3	98.8								99.7	98.1	98.9
≥ -15	94.9	99.9	99.7								100.0	99.1	99.5
≥ -20	97.8	100.0	99.9									99.6	99.8
≥ -25	99.6		100.0									99.7	99.9
≥ -30	100.0											99.9	100.0
≥ -35												100.0	100.0
≥													
≥													
≥													
≥													
≥													
≥													
≥													
≥													
≥													
MEAN	20.1	27.2	31.3	42.8	53.0	60.6	68.7	67.3	57.2	47.7	34.6	26.5	44.8
S D	18.841	14.599	14.363	9.870	8.215	7.136	6.301	6.723	9.404	10.335	13.460	15.522	20.006
TOTAL OBS	992	904	992	960	992	960	992	992	960	992	960	992	11688

USAFETAC FORM JUL 64 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45												53	
46	54	60	74	84	79	88	97	96	92	65	65	57	97
47	49	59	61	78	83	79	100	96	94	77	73	58	100
48	59	55	57	76	83	89	93	95	92	79	60	49	95
49	51	57	57	79	87	92	92	102	88	73	72	52	102
50	48	68	61	72	81	89	95	89	98	78	69	59	98
51	48	63	59	72	85	82	96	96	86	80	61	58	96
52	47	58	61	83	79	87	97	95	89	82	62	60	97
53	63	56	65	70	86	87	102	96	90	83	70	54	102
54	55	66	61	68	87	91	97	94	86	78	69	58	97
55	53	54	61	68	78	88	98	96	92	81	61	53	98
56	57	54	70	74	86	94	95	94	89	76	66	62	95
57	51	55	62	80	84	88	95	96	90	84	57	62	96
58	60	61	58	72	90	91	88	94	91	81	61	60	94
59	63	47	64	73	80	90	97	92	90	74	65	59	97
60	52	52	70	74	88	87	102	93	89	84	59	56	102
61	55	64	66	64	83	96	94	106	83	80	72	50	106
62	63	64	64	86	74	93	90	98	87	86	75	63	98
63	57	65	76	81	85	89	100	97	92	87	64	60	100
64	58	57	68	76	87	88	95	100	86	86	67	43	100
65	56	59	56	73	77	85	90	95	82	79	67	61	95
66	46	53	73	72	87	93	96	97	92	77	64	56	97
67	51	60	63	64	83	83	93	96	97	74	60	51	97
68	63	65	68	62	71	86	94	90	89	78	61	54	94
69	47	42	63	81	84	91	92	105	96	72	63	64	105
70	45	62	56	72	79	92	96	101	83	82	59	54	101
71	53	53	59	71	81	89	96	98	86	84	68	46	98
72	46	61	70	80	92	90	95	96	82	78	57	56	96
73	61	63	63	66	86	91	104	97	87	77	64	58	104
74	58	58	64	83	76	92	95	94	86	79	63	57	95
MEAN													
S.D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)
USAF ETAC FORM 0-88-5 (OLA)   # (AT LEAST ONE DAY LESS THAN 24 OBS)

DATA PROCESSING BRANCH
USAF/ETAC/OL A
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN	FEB.	MAR	APR.	MAY	JUN.	JUL	AUG	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
75	52	43	53	61	82	83	99	92	84	82	74	61	99
76	57	59	70	74	85	93	96	95	92	81	70	59	96
77	55	67	67	78	78	92	94	92	86	77	67		
MEAN	54.2	58.1	63.8	74.6	82.7	89.0	95.7	96.0	88.9	79.2	65.2	56.3	98.3
S D	5.507	6.359	5.674	6.355	4.633	3.759	3.531	3.729	4.165	4.589	5.017	4.916	3.196
TOTAL OBS.	992	904	992	960	992	960	992	992	960	992	960	992	11688

NOTES * (BASED ON LESS THAN FULL MONTHS)
USAF ETAC FORM 0-80-5 (OLA) JUL 64   # (AT LEAST ONE DAY LESS THAN 24 OBS)

2

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   STATION NAME   YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG	SEP.	OCT.	NOV	DEC	ALL MONTHS
45												-5	
46	-8	4	14	22	20	39	48	45	35	14	-11	-12	-12
47	-24	-16	-26	26	26	42	50	45	27	31	-1	-3	-26
48	-7	-14	-19	15	32	46	47	50	34	25	15	-14	-19
49	-29	-14	-3	29	27	34	43	44	31	11	21	-19	-29
50	-36	2	-13	17	30	32	44	40	26	21	-11	-12	-36
51	-23	-5	-31	6	32	32	43	44	28	12	5	-23	-31
52	-24	-13	1	23	38	40	44	41	40	26	0	10	-24
53	-26	13	3	13	25	41	45	49	37	25	16	10	-26
54	-35	10	-6	-4	14	37	50	45	28	24	12	-3	-35
55	-5	-10	-17	18	30	40	41	48	30	17	-19	-22	-22
56	-20	-24	-13	21	26	45	49	41	34	15	10	-17	-24
57	-32	-15	0	18	38	43	50	44	29	12	17	17	-32
58	15	-2	-2	22	38	44	43	49	36	26	-6	-6	-6
59	-21	-15	20	17	33	43	48	47	28	18	-17	11	-21
60	-4	-15	-19	21	29	43	50	45	36	23	-3	1	-19
61	2	2	8	17	33	45	52	48	28	18	1	-22	-22
62	-30	-18	-14	22	34	33	41	45	34	27	14	-10	-30
63	-27	-14	17	21	31	37	40	44	38	20	-7	-14	-27
64	-15	4	-24	5	35	38	47	41	30	24	-14	-32	-32
65	-19	-12	-20	23	26	31	40	38	23	26	-6	-17	-20
66	-23	-9	-10	13	23	36	45	38	32	20	-7	-15	-23
67	-12	5	-14	4	18	35	40	43	39	26	3	-25	-25
68	-20	-6	16	10	23	38	35	44	33	22	-1	-44	-44
69	-34	-7	-14	20	26	29	46	40	36	18	10	-1	-34
70	-20	1	-16	13	28	32	43	41	20	16	-14	-13	-20
71	-35	-7	-7	17	26	35	39	46	25	0	-15	-23	-35
72	-33	-15	-5	14	27	35	39	47	27	-5	8	-36	-36
73	-19	-6	13	19	29	37	37	42	30	25	-14	-19	-19
74	-30	-2	1	24	31	32	47	40	26	19	11	-2	-30
MEAN													
S.D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)   # (AT LEAST ONE DAY LESS THAN 24 OBS)

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24112   MALMSTROM AFB MT/GREAT FALLS   45-77
STATION   - STATION NAME   YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN.	FEB	MAR	APR.	MAY	JUN	JUL	AUG.	SEP	OCT.	NOV	DEC.	ALL MONTH:
75	-15	-23	0	-9	31	42	50	41	30	22	-12	-12	-x
76	-15	-13	-23	23	32	33	44	44	32	13	-1	-2	-23
77	-21	10	5	11	24	40	42	38	34	19	-22		
MEAN	-20.1	-6.8	-5.2	16.0	28.6	37.9	45.6	43.7	31.1	19.0	-1.2	-11.7	-26.0
S.D	11.807	10.213	13.611	8.392	5.581	4.669	4.398	3.347	4.784	7.609	11.969	13.741	7.739
TOTAL OBS.	992	904	992	960	992	960	992	992	960	992	960	992	11688

NOTES ⅟ (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0 #-5 (OLA)   # (AT LEAST ONE DAY LESS THAN 24 OBS)

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTRUM AFB MT/GREAT FALLS STATION NAME	68-77	YEARS	JAN MONTH

PAGE 1   0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53					.2	.3												5	5		
52/ 51					.1													1	1		
50/ 49					.1	.1	.1											3	3		
48/ 47			.1	.4	.8	.4												16	16		
46/ 45				.8	.8	.8	.1											22	22	5	
44/ 43			.1	1.8	.4	1.2	.2											35	35	4	
42/ 41			.2	1.9	1.6	.3	.2											40	40	4	
40/ 39				.9	1.7	1.2	.2											37	37	20	
38/ 37		.2	2.0	1.2	.4													36	36	30	5
36/ 35		.5	1.1	1.6	.6													36	36	43	8
34/ 33		.9	1.0	2.0	.4													40	40	71	10
32/ 31	.1	.3	1.3	.4	.8													27	27	43	24
30/ 29	.3	.9	3.0	1.2														50	50	43	49
28/ 27	.1	.6	2.0	.4														30	30	44	42
26/ 25	.1	1.4	2.2	.2														36	36	45	28
24/ 23	.2	1.0	1.1															21	21	44	27
22/ 21	.5	1.6	.9															28	28	44	48
20/ 19	.1	1.7	1.0															26	26	20	54
18/ 17	.6	2.4	.4															32	32	35	54
16/ 15	.6	2.5	.1															30	30	39	35
14/ 13	.2	1.7	.1															19	19	30	55
12/ 11	.6	1.7	.1															23	23	16	44
10/ 9	.2	1.6	.2															19	19	21	56
8/ 7	.4	1.4	.2															19	19	18	20
6/ 5	.2	.9																10	10	14	21
4/ 3	.2	1.2																13	13	10	19
2/ 1	.8	2.3																28	28	29	15
0/ -1	1.2	.6																17	17	21	8
-2/ -3	1.4	1.0																22	22	23	19
-4/ -5	1.4	.4																17	17	19	12
-6/ -7	1.8	.5																22	22	24	28
-8/ -9	2.8	.2																28	28	29	17
-10/-11	2.8	.1																27	27	17	19
-12/-13	2.4																		22	22	22	17

Element (X)	Σx^2		Σx		$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature							
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-14/-15	3.1																	29	29	29	24
-16/-17	1.3																	12	12	12	28
-18/-19	.5																	5	5	5	17
-20/-21	1.3																	12	12	12	21
-22/-23	1.6																	15	15	15	20
-24/-25	.5																	5	5	5	22
-26/-27	.4																	4	4	4	23
-28/-29	.5																	5	5	5	6
-30/-31	.3																	3	3	3	14
-32/-33	.2																	2	2	2	6
-34/-35	.1																	1	1	1	6
-36/-37																					4
-38/-39																					2
-40/-41																					3
TOTAL	29.2	27.6	18.0	13.8	7.4	3.3	.6											930	930	930	930

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4053601	60181	64.7	13.092	930	24.8	65.9					93
Dry Bulb	666684	15600	16.8	20.880	930	24.8	65.9					93
Wet Bulb	508731	13101	14.1	18.680	930	25.8	75.3					93
Dew Point	368902	5896	6.3	18.891	930	31.6	90.7					93

USAFETAC FORM 0 26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	08-77		JAN
STATION	STATION NAME		YEARS	MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
54/ 53					.2	.1												3	3		
52/ 51				.1														1	1		
50/ 49				.2	.1	.1	.1											5	5		
48/ 47				.1	.2	.3	.2											8	8		
46/ 45			.2	.9	.6	.8	.2											26	26	3	
44/ 43				1.7	.8	.8	.2											32	32	3	
42/ 41			1.3	1.9	1.0	.1	.1											41	41	7	
40/ 39			.8	2.5	1.1	.1												41	41	15	1
38/ 37		.1	1.5	1.6	.6													36	36	43	4
36/ 35	.1	.2	.6	1.3	.9													29	29	43	4
34/ 33	.1	.4	.8	1.7	.6													34	34	52	19
32/ 31	.3		2.4	1.4	.3													41	41	45	28
30/ 29	.3	.5	2.3	.6														35	35	36	31
28/ 27	.3	.8	2.2	.3														33	33	52	38
26/ 25	.1	.2	2.5															26	26	42	44
24/ 23	.1	2.2	1.4	.1														35	35	35	28
22/ 21	.5	2.2	1.2															36	36	53	.0
20/ 19	.8	1.1	.4		.1													22	22	34	63
18/ 17	.3	2.2	.2															25	25	25	56
16/ 15	.3	2.6	.3															30	30	35	21
14/ 13	.4	1.0	.2															15	16	24	47
12/ 11	.3	1.6	.1															19	19	13	56
10/ 9	1.4	1.2	.1															25	26	28	51
8/ 7	.6	1.4																19	19	20	29
6/ 5	.3	1.5																17	19	17	21
4/ 3	.4	.8																11	11	14	16
2/ 1	.4	2.3																25	25	18	8
0/ -1	1.1	.3																13	13	24	17
-2/ -3	.8	.4																11	11	11	19
-4/ -5	2.9	.6																33	33	30	18
-6/ -7	2.6	.4																28	28	32	14
-8/ -9	2.7	.1																26	26	27	20
-10/-11	2.3	.1																22	23	21	16
-12/-13	2.7																	25	25	26	30

Element (X)	Σ_{x^2}			Σ_x		$\bar{x}$	σ_x	No. Obs.		Mean No. of Hours with Temperature					
									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0300-0500
HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
								WET BULB TEMPERATURE DEPRESSION (F)													
-14/-15	2.8																	26	26	26	19
-16/-17	1.1																	10	10	10	28
-18/-19	1.0																	9	9	9	22
-20/-21	1.5																	14	14	14	23
-22/-23	1.1																	10	10	10	21
-24/-25	.8																	7	7	7	17
-26/-27	.8																	7	7	7	21
-28/-29	.9																	8	8	8	10
-30/-31	.4																	4	4	4	9
-32/-33	.1																	1	1	1	6
-34/-35	.1																	1	1	1	10
-36/-37																					6
-38/-39																					3
-40/-41																					1
TOTAL	32.9	24.2	18.6	14.6	6.6	2.3	.9											925	930	925	925

Element (X)	Σx²	Σx	X̄	σx	No. Obs.	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	4092318	60320	65.2	13.110	925							
Dry Bulb	652165	14951	16.1	21.054	930	25.6	67.4					93
Wet Bulb	500458	12528	13.5	18.921	925	26.9	76.3					93
Dew Point	365935	5447	5.9	19.008	925	33.2	90.2					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53					.1	.2												3	3		
52/ 51						.1												1	1		
50/ 49				.1	.2	.3	.1											7	7		
48/ 47			.1	.1	.4	.3	.3											12	12		
46/ 45			.3	.6	.6	.3	.1											19	19	3	
44/ 43			.5	1.5	.5	.4	.2	.1										31	31	2	
42/ 41			.9	1.4	.9	.8												36	36	12	
40/ 39			1.7	1.3	1.0	.2												39	39	22	
38/ 37			1.1	1.8	.5													32	32	31	7
36/ 35	.1	.2	1.1	2.4	.2	.1												38	38	40	10
34/ 33		.9	1.1	2.9	.4	.1												50	50	41	14
32/ 31		.8	1.0	1.7	.1													33	33	56	22
30/ 29	.2	.3	1.5	.6	.1													26	26	47	34
28/ 27	.1	.8	2.4	.1														31	31	46	40
26/ 25	.2	.8	2.6															33	33	40	27
24/ 23	.4	2.4	1.8															43	43	40	25
22/ 21	.1	1.9	.9															27	27	49	49
20/ 19	.4	1.4	.9															25	25	33	53
18/ 17	.5	1.2	.1															17	17	26	54
16/ 15		2.2	.3															23	23	21	52
14/ 13	.3	1.6	.1															19	19	23	40
12/ 11	.4	1.6	.1															20	20	23	28
10/ 9	1.4	1.4																26	26	27	49
8/ 7	1.0	1.2																20	20	22	36
6/ 5	.5	1.6																20	21	19	21
4/ 3	.3	1.5																17	17	16	22
2/ 1	.9	1.8																25	25	22	19
0/ -1	1.5	.2																16	16	27	14
-2/ -3	.5	.2																7	7	7	16
-4/ -5	2.3	.3																24	24	23	25
-6/ -7	2.4	.6																28	28	25	16
-8/ -9	3.4	.2																34	34	39	17
-10/-11	2.8	.2																28	28	26	12
-12/-13	2.7	.1																26	26	28	23

Element (X)	Σx²			Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
												≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																		
Dry Bulb																		
Wet Bulb																		
Dew Point																		

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM JUL 64 0-26.5 (OL A)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS   68-77   YEARS   JAN MONTH

PAGE 2   0600-0800 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-14/-15	2.5																	23	23	23	21
-16/-17	.6																	6	6	6	28
-18/-19	1.3																	12	12	12	19
-20/-21	1.6																	15	15	15	20
-22/-23	.8																	7	7	7	26
-24/-25	1.1																	10	10	10	19
-26/-27	.3																	3	3	3	13
-28/-29	.8																	7	7	7	13
-30/-31	.2																	2	2	2	9
-32/-33	.8																	7	7	7	9
-34/-35	.1																	1	1	1	4
-36/-37																					4
-38/-39																					7
-40/-41																					3
-42/-43																					1
TOTAL	32.6	25.4	18.4	14.6	5.2	2.9	.8	.1										929	930 / 929	929	929

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4093559	60471	65.1	13.021	929							93
Dry Bulb	649101	14755	15.9	21.136	930	25.6	66.2					93
Wet Bulb	499153	12363	13.3	18.989	929	26.8	77.9					93
Dew Point	371487	5203	5.6	19.207	929	32.7	89.9					93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM JUL 64   0-26.5 (OL A)

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0900-1100 HOURS (L.S.T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
60/ 59								.1										1	1		
58/ 57							.1											1	1		
56/ 55					.1			.1	.1									3	3		
54/ 53				.1	.1	.1	.2	.1										6	6		
52/ 51			.1	.1	.4	.3		.1	.1									11	11		
50/ 49			.1	.2	.3	.3	.1	.2	.1									13	13		
48/ 47			.1	.6	.5	.1	.4	.1										18	18	2	
46/ 45			.3	.4	1.0	.5	.4	.2										27	27	6	
44/ 43			.3	1.0	.9	1.0	.2	.1										32	32	13	2
42/ 41			.8	1.2	1.1	.4												32	32	16	1
40/ 39		.3	.5	1.9	1.5	.4												44	44	17	5
38/ 37		.1	.5	1.9	1.9	.2												44	44	33	8
36/ 35		.1	1.6	2.3	.4	.3												44	44	41	11
34/ 33	.2	.9	1.7	2.0	.5													50	50	52	22
32/ 31	.1	.2	1.0	1.1	.8													29	29	69	18
30/ 29	.2	.4	1.4	1.4														32	32	63	23
28/ 27		.6	1.7	.9														30	30	30	37
26/ 25		.6	1.8	.2														25	25	42	35
24/ 23	.5	1.5	1.0															28	28	45	28
22/ 21	.1	1.2	.9															20	20	39	58
20/ 19		1.3	.2															14	14	14	65
18/ 17	.8	1.6	.5															27	27	30	42
16/ 15	.1	1.6	.2															18	18	20	49
14/ 13	.2	1.3	.2															16	16	25	35
12/ 11	.5	1.4																18	18	14	39
10/ 9	1.2	1.0																20	20	22	57
8/ 7	.2	1.3	.1															15	15	13	27
6/ 5	.3	2.2																23	23	19	11
4/ 3	.1	1.6																16	16	18	17
2/ 1	.6	1.4																19	19	22	16
0/ -1	2.3	.4																25	25	30	11
-2/ -3	1.7	1.8																33	33	31	22
-4/ -5	1.4	.4																17	17	20	13
-6/ -7	2.4	.4																26	26	29	24

Element (X)	Σx'			Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≤67 F	≤73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEARS		MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-8/-9	3.0																	28	28	28	27
-10/-11	2.9																	27	27	27	24
-12/-13	2.7																	25	25	25	26
-14/-15	1.7																	16	16	16	33
-16/-17	.3																	3	3	3	15
-18/-19	1.3																	12	12	12	19
-20/-21	1.6																	15	15	15	19
-22/-23	.5																	5	5	5	25
-24/-25	.6																	6	6	6	14
-26/-27	.9																	8	8	8	10
-28/-29	.3																	3	3	3	14
-30/-31	.2																	2	2	2	6
-32/-33	.1																	1	1	1	9
-34/-35	.2																	2	2	2	3
-36/-37																					4
-38/-39																					1
-40/-41																					2
-42/-43																					2
TOTAL	29.5	23.8	15.2	15.4	9.5	3.9	1.5	1.1	.3									930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3840302	58314	62.7	14.067	930							
Dry Bulb	739822	16922	18.2	21.562	930	25.4	60.4					93
Wet Bulb	545669	14009	15.1	18.979	930	26.3	74.8					93
Dew Point	369120	6304	6.8	18.744	930	32.4	88.1					93

USAFETAC FORM 0-26-5 (OL A) JUL 64 — REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME		YEARS	MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63								.1										1	1		
62/ 61									.1									1	1		
60/ 59								.1	.1	.2								4	4		
58/ 57					.3	.5		.3		.1								12	12		
56/ 55				.4		.4	.1		.1	.3								13	13		
54/ 53					.1	.3	.2	.4	.3									13	13		
52/ 51				.1	.4	.6		.5										16	16		
50/ 49				.2	.1	.1	.1	.4	.2									11	11	2	
48/ 47			.3	.4	.6	.4	1.3	.3										32	32	8	
46/ 45			.1	.4	.8	1.7	1.1	.1										39	39	12	
44/ 43			.2	1.0	1.7	.6	.4											37	37	24	
42/ 41		.1		1.0	1.3	.8	.5											39	39	10	3
40/ 39			1.0	1.7	2.5	1.3												60	60	23	9
38/ 37		.1	1.4	.6	1.4	.8												40	40	39	4
36/ 35	.3	.1	.6	2.2	1.0	.3												42	42	72	17
34/ 33		.5	1.4	2.2	.9	.1												47	47	70	13
32/ 31		.1	.6	1.1	.2													19	19	48	21
30/ 29		.2	1.1	.9	.3													23	23	66	26
28/ 27		.9	.6	.8	.1													22	22	40	45
26/ 25		1.1	.8	.2														19	19	41	31
24/ 23		1.2	.5															16	16	25	38
22/ 21		.9	.4															12	12	22	52
20/ 19		1.8	1.0															26	26	15	63
18/ 17	.1	.8	.6															14	14	24	50
16/ 15		1.6	.4															19	19	19	50
14/ 13	.1	1.4	.3															17	17	18	38
12/ 11	.8	2.4	.2															31	31	25	34
10/ 9	.1	1.5	.1															16	16	25	50
8/ 7		1.8	.2															19	19	15	30
6/ 5	.3	1.6																18	18	23	17
4/ 3	.1	2.2																21	21	19	20
2/ 1	.4	2.3																25	25	27	13
0/ -1	1.2	1.2																22	22	28	18
-2/ -3	1.0	1.1																19	19	21	18

Element (X)	Σx²			Σx		x̄	σx	No. Obs.		Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	68-77 YEARS	JAN MONTH

PAGE 2   1200-1400 HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-4/-5	1.9	1.3																30	30	28	30
-6/-7	1.7	.4																20	20	22	19
-8/-9	2.5	.1																24	24	26	26
-10/-11	2.0	.4																23	23	20	25
-12/-13	2.0	.1																20	20	24	31
-14/-15	.8																	7	7	7	17
-16/-17	.5																	5	5	5	18
-18/-19	.9																	8	8	8	16
-20/-21	2.3																	21	21	21	21
-22/-23	.2																	2	2	2	22
-24/-25	.3																	3	3	3	5
-26/-27	.2																	2	2	2	13
-28/-29																					18
-30/-31																					6
-32/-33																					3
TOTAL	19.8	27.1	12.0	13.2	11.8	7.8	4.3	2.4	.9	.6									930		930
																		930		930	

Element (X)	Σx'	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3324920	53712	57.8	15.486	930							93
Dry Bulb	892949	20501	22.0	21.788	930	20.6	52.3					93
Wet Bulb	613096	16586	17.8	18.481	930	21.7	67.0					93
Dew Point	354348	7602	8.2	17.735	930	30.6	88.4					93

USAFETAC FORM 0-26.5 (O: 4) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JAN

PAGE 1   1500-1700 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
62/ 61										.1								1	1		
60/ 59							.1	.1										2	2		
58/ 57					.1		.1			.1								3	3		
56/ 55				.2	.3	.3		.1		.1								10	10		
54/ 53				.1	1.0	.5	.1	.2		.1								19	19		
52/ 51				.2	.4	.4		.2										12	12		
50/ 49			.1	.3	.8	.2	.1	.6	.2									22	22		
48/ 47				.2	.2	.4	.8	.1										16	16	4	
46/ 45			.2	.3	1.0	1.6	1.0											38	38	11	
44/ 43			.2	1.5	1.5	1.8	.5	.1										53	53	24	
42/ 41			.4	1.1	1.5	.9	.3											39	39	12	1
40/ 39			1.3	1.9	1.2	.9	.5											54	54	22	7
38/ 37		.2	.9	1.8	1.2	1.1												48	48	36	4
36/ 35		.1	.5	1.4	1.0	.2												30	30	78	16
34/ 33		.3	1.0	1.7	.4													32	32	63	18
32/ 31		.5	.6	1.6	.4													30	30	49	18
30/ 29		.3	1.2	1.3	.4													30	30	58	23
28/ 27		1.1	1.9	.1														29	29	47	50
26/ 25		.4	.5	.5														14	14	39	35
24/ 23		1.1	.3															13	13	34	38
22/ 21		.9	1.0															17	17	11	50
20/ 19		1.7	1.0															25	25	18	56
18/ 17	.1	.4	1.0															14	14	29	44
16/ 15	.3	1.7	.3															22	22	27	54
14/ 13	.5	1.3	.5															22	22	20	27
12/ 11	.4	1.9	.1															23	23	20	47
10/ 9	.1	1.8	.1															19	19	22	50
8/ 7	.2	2.0	.1															22	22	17	28
6/ 5	.1	1.8	.2															20	20	23	24
4/ 3	.5	1.1																15	15	24	17
2/ 1	.2	2.6																26	26	18	16
0/ -1	1.6	1.6																30	30	34	23
-2/ -3	1.1	.4																14	14	24	20
-4/ -5	2.4	.9																30	30	29	19

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp. (F)	\multicolumn{17}{c|}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c|}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-6/ -7	1.5	.5																19	19	18	19
-8/ -9	2.4	.6																28	28	29	31
-10/-11	2.4																	22	22	23	32
-12/-13	1.7																	16	16	16	18
-14/-15	1.0																	9	9	9	24
-16/-17	.4																	4	4	4	13
-18/-19	.8																	7	7	7	17
-20/-21	1.8																	17	17	17	22
-22/-23	.9																	8	8	8	17
-24/-25	.4																	4	4	4	11
-26/-27	.2																	2	2	2	9
-28/-29																					14
-30/<31																					8
-32/-33																					8
-34/-35																					2
TOTAL	21.1	25.5	13.5	13.9	10.1	8.9	4.5	1.2	.9	.4									930		930
																		930		930	

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3330065	53911	58.0	14,852	930							
Dry Bulb	860201	20017	21.5	21,498	930	21.0	55.1					93
Wet Bulb	596359	16263	17.5	18,325	930	22.4	68.0					93
Dew Point	352363	7333	7.9	17,806	930	30.7	88.4					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME		YEARS	MONTH

PAGE 1   1800-2000
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53						.2												2	2		
52/ 51					.1	.3	.2											6	6		
50/ 49				.3	.6	.5												14	14		
48/ 47				.3	.4	.2	.1	.1										11	11		
46/ 45			.2	.6	.4	.8	.6	.1										26	26	1	
44/ 43		.1	.3	.9	.1	1.1	.2											25	25	9	
42/ 41		.2	.8	2.5	1.8	.6												55	55	15	
40/ 39		.1	.3	1.9	1.5	.2	.2											40	40	24	1
38/ 37			1.7	1.7	.4	.3												39	39	22	5
36/ 35		.2	1.8	1.8	1.3													48	48	47	13
34/ 33		.5	.9	2.0	.4													36	36	68	14
32/ 31		.3	.9	1.9	.3													32	32	49	20
30/ 29		.9	1.7	1.5														38	38	46	31
28/ 27		1.2	1.8	1.3														40	40	50	46
26/ 25	.1	1.3	1.5	.3														30	30	56	37
24/ 23		1.9	1.3	.1														31	31	39	29
22/ 21		1.3	1.2															23	23	40	54
20/ 19	.1	1.7	.2															19	19	24	45
18/ 17	.2	1.7	.9															22	22	29	47
16/ 15	.3	1.5	.6															23	23	24	51
14/ 13		1.7	.1															17	18	20	56
12/ 11	.2	2.3	.1															24	24	22	39
10/ 9	.1	2.2	.1															22	22	24	36
8/ 7	.3	1.4	.1															17	17	20	27
6/ 5	.2	1.4																15	15	20	21
4/ 3	.6	1.8																23	24	19	27
2/ 1	.4	1.5																18	18	21	23
0/ -1	1.6	.2																17	17	22	14
-2/ -3	.8	1.2																18	18	17	21
-4/ -5	2.7	.5																30	30	31	18
-6/ -7	2.2	.7																24	24	25	14
-8/ -9	2.2	.1																21	21	22	21
-10/-11	3.0																	28	28	28	24
-12/-13	2.0																	19	19	19	28

Element (X)	ΣX²			ΣX		X̄	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb															
Wet Bulb															
Dew Point															

24112 STATION — MALMSTROM AFB MT/GREAT FALLS — 68-77 YEARS — JAN MONTH

PAGE 2 — 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
-14/-15	2.3																	21	21	21	24
-16/-17	.9																	8	8	8	16
-18/-19	.3																	3	3	3	25
-20/-21	1.4																	13	13	13	17
-22/-23	.6																	6	6	6	19
-24/-25	1.2																	11	11	11	13
-26/-27	.5																	5	5	5	10
-28/-29	.3																	3	3	3	14
-30/-31	.3																	3	3	3	6
-32/-33	.1																	1	1	1	11
-34/-35	.1																	1	1	1	4
-36/-37																					1
-38/-39																					2
-40/-41																					2
-42/-43																					2
TOTAL	25.2	27.4	16.6	17.3	7.5	4.3	1.4	.2											930		928
																		928		928	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3797563	58127	62.6	13.000	928							
Dry Bulb	709957	16957	18.2	20.770	930	23.2	62.8					93
Wet Bulb	528365	14105	15.2	18.404	928	24.0	74.4					93
Dew Point	355942	6436	6.9	18.325	928	30.7	89.7					93

USAFETAC FORM 0-26-5 (OL A) JUL 64 — REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTRUM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME		YEARS	MONTH

PAGE 1   2100-2300
HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53					.2	.4												6	6		
52/ 51					.1		.2											3	3		
50/ 49					.3	.9	.1											12	12		
48/ 47				.2	.1	.2	.1											6	6		
46/ 45				1.1	.6	.4	.4											24	24	2	
44/ 43			.5	1.6	.5	1.0	.4											38	38	7	
42/ 41		.1	.2	1.7	1.4	.6	.3											41	41	6	
40/ 39		.2	1.2	1.5	1.4	.1												41	41	30	1
38/ 37		.2	1.5	1.7	.6	.2												40	40	27	3
36/ 35		.8	1.1	1.1	.3													30	30	44	14
34/ 33		.4	1.3	1.8	.6													39	39	68	8
32/ 31		.5	1.1	2.3	.4													40	40	44	25
30/ 29		.6	1.7	1.8	.1													40	40	36	37
28/ 27	.1	1.1	2.2	.6														37	37	46	39
26/ 25	.1	1.2	1.1	.1														23	23	65	35
24/ 23	.2	1.3	1.4															27	27	35	44
22/ 21	.6	1.8	1.1															33	33	37	50
20/ 19	.2	1.8	1.0															28	28	31	39
18/ 17	.3	2.7	.4															32	32	34	40
16/ 15	.3	1.9	.5															26	26	37	57
14/ 13	.3	1.2	.1															15	15	29	53
12/ 11	.5	1.0																14	14	16	43
10/ 9	.3	2.9																30	30	15	49
8/ 7		1.8																17	17	24	17
6/ 5	.2	1.1	.1															13	13	22	24
4/ 3	.4	1.5																18	18	15	23
2/ 1	.4	1.1																14	14	15	20
0/ -1	1.8	.8																24	24	25	15
-2/ -3	.9	.1																9	9	15	15
-4/ -5	2.5	.4																27	27	26	19
-6/ -7	1.8	.9																25	25	23	18
-8/ -9	2.5	.1																24	24	27	19
-10/-11	3.1																	29	29	30	25
-12/-13	2.2																	20	20	20	19

Element (X)	Σx²		Σx		x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	68-77	YEARS		JAN MONTH

PAGE 2 — 2100-2300 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-14/-15	2.0								19	19	19	21
-16/-17	1.7								16	16	16	16
-18/-19	.5								5	5	5	24
-20/-21	1.4								13	13	13	15
-22/-23	1.0								9	9	9	22
-24/-25	.9								8	8	8	17
-26/-27	.6								6	6	6	25
-28/-29	.2								2	3	2	11
-30/-31	.2								2	2	2	8
-32/-33	.3								3	4	3	6
-34/-35												4
-36/-37												4
-38/-39												2
-40/-41												1
-42/-43												1
TOTAL	27.9	27.6	16.5	15.6	6.9	3.9	1.6		'928	930	928	928

Header span: WET BULB TEMPERATURE DEPRESSION (F) — columns 0, 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, ≥31

Element (X)	Σx'	Σx	X̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3903924	58984	63.6	12.926	928							93
Dry Bulb	693060	16324	17.6	20.919	930	24.3	65.0					93
Wet Bulb	520050	13704	14.8	18.512	928	25.0	74.6					93
Dew Point	361398	6262	6.7	18.355	928	30.8	90.4					93

Mean No. of Hours with Temperature

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	YEARS		MONTH

PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63								.0										1	1		
62/ 61									.0	.0								2	2		
60/ 59								.0	.0	.0								7	7		
58/ 57					.1	.1	.1			.0								16	16		
56/ 55				.1	.1	.1	.0	.0	.1									26	26		
54/ 53			.0	.1	.1	.3	.1	.1	.1	.0								57	57		
52/ 51			.0	.0	.2	.2	.1	.1	.0									51	51		
50/ 49			.0	.2	.3	.3	.1	.2	.1									87	87		2
48/ 47			.1	.3	.4	.3	.4	.1										119	119	14	
46/ 45			.2	.6	.7	.9	.5	.1										221	221	45	
44/ 43		.0	.3	1.4	.8	1.0	.3	.0										283	283	86	2
42/ 41		.1	.6	1.7	1.3	.6	.2											323	323	82	5
40/ 39		.1	1.0	1.8	1.4	.4	.1											356	356	173	24
38/ 37		.1	1.3	1.6	.9	.3												315	315	261	40
36/ 35	.1	.3	1.1	1.7	.7	.4												297	297	408	93
34/ 33	.0	.6	1.1	2.1	.6	.0												328	328	485	118
32/ 31	.1	.3	1.1	1.4	.4													251	251	403	176
30/ 29	.1	.5	1.7	1.2	.1													274	274	395	254
28/ 27	.1	.9	1.9	.6	.0													252	252	355	337
26/ 25	.1	.9	1.6	.2														206	206	370	272
24/ 23	.2	1.6	1.1	.0														214	214	298	257
22/ 21	.2	1.5	.9															196	196	295	391
20/ 19	.2	1.6	.7		.0													185	185	189	438
18/ 17	.4	1.6	.5															183	183	232	387
16/ 15	.3	2.0	.4															191	191	222	369
14/ 13	.3	1.4	.2															140	142	183	351
12/ 11	.5	1.7	.1															172	172	149	330
10/ 9	.6	1.7	.1															177	178	184	398
8/ 7	.3	1.5	.1															148	148	149	214
6/ 5	.3	1.5	.0															136	139	157	160
4/ 3	.3	1.5																134	135	135	161
2/ 1	.5	1.9																180	180	172	130
0/ -1	1.5	.7																164	164	211	120
-2/ -3	1.0	.8																133	133	149	150

Element (X)	Σx²		Σx		x̄	σx	No. Obs.				Mean Nr. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77

STATION STATION NAME YEARS

JAN
MONTH

PAGE 2 ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-4/ -5	2.2	.6																-208	208	206	154
-6/ -7	2.0	.5																192	192	198	152
-8/ -9	2.7	.2																213	213	227	178
-10/-11	2.7	.1																206	207	202	177
-12/-13	2.3	.0																173	173	180	192
-14/-15	2.0																	150	150	150	183
-16/-17	.9																	64	64	64	162
-18/-19	.8																	61	61	61	159
-20/-21	1.6																	120	120	120	166
-22/-23	.8																	62	62	62	173
-24/-25	.7																	54	54	54	118
-26/-27	.5																	37	37	37	124
-28/-29	.4																	28	29	28	100
-30/-31	.2																	16	16	16	66
-32/-33	.2																	15	16	15	58
-34/-35	.1																	6	6	6	33
-36/-37																					23
-38/-39																					17
-40/-41																					12
-42/-43																					6
TOTAL	27.3	26.1	16.1	14.8	8.1	4.7	2.0	.6	.3	.1									7440		7430
																		7430		7430	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	30436252	464020	62.5	14.005	7430							744
Dry Bulb	5863939	136027	18.3	21.306	7440	190.5	495.1					744
Wet Bulb	4311881	112659	15.2	18.721	7430	198.9	588.2					744
Dew Point	2899495	50483	6.8	18.551	7430	252.6	715.8					744

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

T mp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
52/ 51							.1	.1										2	2		
48/ 47				.1	.4		.1											5	5		
46/ 45				.2	.6	.4		.5										14	14		
44/ 43				.5	1.6	.7	.2											25	25		
42/ 41				.6	.7	1.2												21	21	2	
40/ 39			.8	2.7	1.3													41	41	6	
38/ 37			2.0	3.0	1.0	.5												54	54	10	
36/ 35		.1	3.1	2.6	.6	.1												55	55	35	
34/ 33		.2	1.4	3.3	.8													49	49	63	3
32/ 31		.7	2.4	2.1	.4													47	47	75	3
30/ 29	.1	.7	5.7	1.2	.2													67	67	51	21
28/ 27	.7	3.2	3.1	.7														65	65	91	49
26/ 25	1.3	2.9	1.3	.2														48	48	93	59
24/ 23	.5	2.6	.8															33	33	60	54
22/ 21	.7	2.3	.7															31	31	51	77
20/ 19	1.0	2.3	.4															30	30	32	80
18/ 17	1.0	2.4	.5															32	32	29	95
16/ 15	1.2	1.6	.4															26	27	34	60
14/ 13	.8	1.0																15	16	22	52
12/ 11	1.3	1.3	.4															25	25	21	43
10/ 9	.6	1.0																13	14	15	40
8/ 7	1.0	1.6																21	23	20	24
6/ 5	1.6	.7																19	19	26	16
4/ 3	.6	1.1																14	15	12	15
2/ 1	.5	1.8																19	20	17	26
0/ -1	1.3	.5																15	17	18	15
-2/ -3	1.3	.2																13	14	15	9
-4/ -5	.7	.6																11	12	11	12
-6/ -7	.6																	5	5	6	21
-8/ -9	1.6	.1																14	14	14	13
-10/-11	.2																	2	2	2	14
-12/-13	.4																	3	3	3	8
-14/-15																					3
-16/-17	.1																	1	1	1	9

Element (X)	Σx²		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   FEB MONTH

PAGE 2   0000-0200 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-18/-19	.2																	2	2	2	9
-20/-21	.1																	1	1	1	2
-22/-23																					2
-26/-27																					3
-28/-29																					1
TOTAL	19.3	28.8	23.0	17.4	7.5	2.9	.5	.6											849		838
																		838		838	

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3898693	55703	66.5	15.304	838							
Dry Bulb	652112	20280	23.9	14.062	849	7.0	57.7					84
Wet Bulb	490238	17630	21.0	11.940	838	7.3	72.4					84
Dew Point	276515	11557	13.8	11.930	838	12.1	83.7					84

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77 YEARS   FEB MONTH

PAGE 1   0300-0500 HOURS (L. S. T.)

Temp (F)	*WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
50/ 49						.2	.1											3	3		
48/ 47					.2													2	2		
46/ 45				.2	.8	.1		.2										12	12		
44/ 43				.8	.7	.1	.2	.1										17	17		
42/ 41			.2	1.6	1.6	1.0	.1											37	37	2	
40/ 39			.6	2.3	1.1	.7	.2											41	41	6	
38/ 37			1.8	2.8	1.4	.1												51	51	16	
36/ 35			2.4	3.6	.5													54	54	33	
34/ 33		.1	2.0	2.2	.6													41	41	54	
32/ 31	.1	.2	3.6	1.7	.4													50	50	70	10
30/ 29		1.1	4.3	1.2														55	55	68	16
28/ 27	.2	2.0	3.4	.7														53	53	77	45
26/ 25	.7	3.0	1.9															47	47	68	66
24/ 23	.7	3.6	1.9															52	52	66	47
22/ 21	.4	3.0	.5															32	32	54	65
20/ 19	.7	1.2	.6															21	21	41	87
18/ 17	1.7	2.4																34	36	31	63
16/ 15	1.2	1.8	1.0															33	33	33	86
14/ 13	1.2	1.2	.1															21	23	25	48
12/ 11	.8	.8	.1															15	15	24	51
10/ 9	.6	.8																12	14	9	38
8/ 7	.8	.8																14	15	14	27
6/ 5	.6	1.1																14	14	12	17
4/ 3	1.4	1.7																26	27	25	10
2/ 1	2.2	1.6																31	33	31	18
0/ -1	1.1	.4																12	15	19	14
-2/ -3	.6	.4																8	9	8	26
-4/ -5	.5	.4																7	7	7	23
-6/ -7	1.9	.2																18	18	20	9
-8/ -9	1.3																	11	11	11	16
-10/-11	.2																	2	2	2	10
-12/-13	.7																	6	6	6	5
-14/-15																					11
-16/-17	.1																	1	1	1	8

Element (X)	Σ_X^2			Σ_X		$\bar{X}$		σ_X	No. Obs.		Mean No. of Hours with Temperature						
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC FORM 0-26-5 (OL A) — JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME		YEARS	MONTH

PAGE 2   0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-18/-19																					8
-20/-21																					4
-22/-23	.2																	2	2	2	4
-26/-27																					1
-32/-33																					2
TOTAL	20.1	27.8	24.4	17.0	7.3	2.3	.7	.4											849		835
																		835		835	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3883223	55565	66.5	14.920	835							
Dry Bulb	633623	19711	23.2	14.406	849	7.0	58.5					84
Wet Bulb	476157	17083	20.5	12.324	835	7.6	72.8					84
Dew Point	268198	11042	13.2	12.104	835	14.2	84.0					84

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME		YEARS	MONTH

PAGE 1   0600-0800 HOURS (L. S. T.)

Temp (F)	WET BI'LB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
46/ 45					1.0		.2	.4										13	13		
44/ 43				1.4	.8	.1	.2											22	22		
42/ 41				1.1	1.4	.4	.4											27	27		
40/ 39			.6	2.8	1.3	.2	.5											45	45		
38/ 37			1.7	3.1	1.0	.2												50	50	22	
36/ 35		.4	2.9	1.9	.6	.1												49	49	26	
34/ 33		.5	2.2	3.1	.8	.1												56	56	69	
32/ 31	.1	1.0	3.7	1.7	.4													57	57	63	3
30/ 29		1.3	2.4	1.6														44	44	66	34
28/ 27	.1	1.9	3.5	.7														52	52	82	36
26/ 25	.7	2.9	1.7															44	44	60	71
24/ 23	.4	3.4	1.3															42	42	63	50
22/ 21	.2	3.1	1.4															40	40	52	55
20/ 19	.7	2.0	.7															29	29	43	69
18/ 17	.5	1.9	.5															24	24	33	76
16/ 15	1.9	1.2																26	26	37	67
14/ 13	1.0	1.6	.5															25	27	20	53
12/ 11	.6	2.4																25	26	22	55
10/ 9	1.2	.7																16	17	24	41
8/ 7	.6	1.0																13	14	10	28
6/ 5	.1	.5																5	6	10	24
4/ 3	1.3	1.3																22	27	19	17
2/ 1	2.5	1.4																33	37	30	8
0/ -1	1.6	.1																14	15	22	14
-2/ -3	1.0	.4																11	11	10	21
-4/ -5	1.0	.2																10	10	9	21
-6/ -7	1.0	.1																9	10	11	11
-8/ -9	1.8																	15	15	15	18
-10/-11	.6																	5	5	5	14
-12/-13	.6																	5	5	5	8
-14/-15																					9
-16/-17																					9
-18/-19	.1																	1	1	1	5
-20/-21																					6

Element (X)	Σx²			Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
												≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																		
Dry Bulb																		
Wet Bulb																		
Dew Point																		

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0600-0800
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-22/-23	.4											.						3	3	3	2
-24/-25																					1
-26/-27																					1
-28/-29																					1
-30/-31																					2
TOTAL	20.0	29.3	23.1	17.4	7.3	1.2	1.3	.4											849		832
																		832		832	

Element (X)	Σx'	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3867109	55381	66.6	14.748	832							84
Dry Bulb	624039	19451	22.9	14.505	849	7.4	58.1					84
Wet Bulb	469767	16861	20.3	12.414	832	8.2	72.2					84
Dew Point	267334	10848	13.0	12.308	832	14.4	84.0					84

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS — STATION NAME	68-77 YEARS	FEB MONTH

PAGE 1   0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
58/ 57								.1		.1	.1							3	3		
56/ 55							.1											1	1		
54/ 53							.8	.2	.2	.1								12	12		
52/ 51					.1		.0	.1	.1									8	8		
50/ 49						.6	.6	1.0										18	18		
48/ 47				.4	.2	1.9	.7	.4	.1									31	31		
46/ 45				.5	2.7	1.4	.7	.1										46	46		
44/ 43			.1	.7	1.7	1.7	.4											38	38	6	
42/ 41		.1	.2	1.3	1.7	1.7	.4											45	45	11	
40/ 39			.7	1.9	2.5	1.1	.4											55	55	26	
38/ 37			1.7	2.9	1.8	.4												56	56	57	1
36/ 35		.4	1.5	2.3	2.0	.2												54	54	61	1
34/ 33		.7	1.0	2.6	.6	.1												42	42	79	7
32/ 31	.1	1.4	1.7	.8	.1													35	35	81	11
30/ 29		1.3	2.3	1.0	.1													39	39	70	33
28/ 27	.2	1.9	1.5	.5														35	35	63	64
26/ 25	.1	1.1	.8	.4														20	20	49	71
24/ 23	.7	1.1	.7	.2														23	23	32	47
22/ 21	.6	1.7	.6	.1														25	25	21	73
20/ 19	.7	2.4	.4															29	29	34	74
18/ 17	.7	1.1	.6															20	20	28	69
16/ 15	1.7	1.1	.1															24	24	28	52
14/ 13	.7	.8	.2															15	15	20	61
12/ 11	.7	1.0																14	14	17	29
10/ 9	.8	1.7	.1															22	25	16	44
8/ 7	1.1	.8																16	18	23	23
6/ 5	.5	1.7																18	19	12	26
4/ 3	1.1	1.3																20	21	23	17
2/ 1	.8	1.3																18	18	15	19
0/ -1	2.3	.4																22	23	30	16
-2/ -3	.8	.1																8	8	10	15
-4/ -5	1.0																	8	8	8	12
-6/ -7	.4																	3	3	3	14
-8/ -9	1.0	.1																9	9	9	28

Element (X)	$\Sigma_{X'}$		Σ_X		$\bar{X}$	σ_a	No. Obs.		Mean No. of Hours with Temperature					
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

PSYCHROMETRIC SUMMARY

24112 STATION	MALHSTROM AFB MT/GREAT FALLS)	68-77		FEB MONTH

PAGE 2 0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25	26-27	28	29-30	≥31				
-10/-11	.5																		4	4	4	9
-12/-13																						5
-14/-15	.2																		2	2	2	3
-16/-17	.1																		1	1	1	1
-18/-19	.1																		1	1	1	7
-20/-21																						4
-22/-23																						2
-26/-27																						1
-28/-29																						1
TOTAL	16.9	23.3	14.3	15.5	13.6	9.0	4.6	1.9	.5	.2	.1									849		840
																			840		840	

Element (X)	Σ_X^2	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3356645	50865	60.6	18.157	840							
Dry Bulb	872910	23626	27.8	15.939	849	5.8	43.5					84
Wet Bulb	604900	19800	23.6	12.834	840	6.8	60.0					84
Dew Point	300393	12381	14.7	11.855	840	11.8	83.1					84

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1200-1400   HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
68/ 67														.1				1	1		
66/ 65												.1						1	1		
64/ 63										.1	.1							2	2		
62/ 61									.2	.4	.1							6	6		
60/ 59							.1		.1	.1	.2	.1						6	6		
58/ 57								.2	.7	.2	.4							13	13		
56/ 55							.4	1.3	.6	.6	.1							25	25		
54/ 53						.6	.6	1.1	.5									23	23		
52/ 51					.4	.8	2.1	1.5	.5									45	45		
50/ 49				.1	.6	1.1	1.2	1.3	.4									39	39		
48/ 47				.6	.6	1.3	1.5	.4	.1									38	38		
46/ 45			.1		1.2	1.2	2.0	.6										43	43	5	
44/ 43				.4	1.4	4.1	.7	.1										57	57	25	
42/ 41				1.1	2.0	1.4	.5											42	42	48	
40/ 39			.5	3.1	2.8	1.7	.5											72	72	56	
38/ 37			.8	1.5	1.1	.9												37	37	56	1
36/ 35			.6	1.8	.4	.6												28	28	71	6
34/ 33		.8	1.2	1.7														31	31	101	11
32/ 31		.2	.8	.7	.1													16	16	81	12
30/ 29		.8	1.7	.7	.4													30	30	47	28
28/ 27		.9	1.5	.6	.1													27	27	47	54
26/ 25		.9	1.4	.2														22	22	27	67
24/ 23	.1	1.1	1.1															19	19	27	67
22/ 21	.7	1.8		.1														22	22	35	65
20/ 19	.6	2.5	.2															28	28	31	82
18/ 17	.4	1.1	.1															13	14	22	83
16/ 15	.5	.8	.2															13	13	12	61
14/ 13	.5	.6	.1															10	10	12	57
12/ 11	1.3	1.1	.1															21	21	23	35
10/ 9	.4	2.6	.1															26	26	14	40
8/ 7	1.2	1.7	.1															25	25	32	37
6/ 5	.2	1.4																14	14	14	19
4/ 3		1.5																13	13	12	19
2/ 1	.5	1.8																19	19	15	15

Element (X)	Σx²		Σx		X̄	σx	No. Obs.		Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77   YEARS   FEB MONTH

PAGE 2   1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
0/ -1	.4	.4																6	6	19	14
-2/ -3		.2																2	2	2	20
-4/ -5	.1																	1	1	2	10
-6/ -7		.8																7	7	3	12
-8/ -9	.4																	3	3	7	12
-10/-11	.2																	2	2	2	3
-12/-13																					4
-14/-15																					2
-16/-17																					1
-18/-19																					8
-20/-21																					2
-22/-23																					1
TOTAL	7.3	23.0	10.7	12.5	11.0	13.7	9.4	6.6	3.1	1.4	.9	.2		.1				848	849	848	848

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2714173	44873	52.9	20.025	848							
Dry Bulb	1175408	28294	33.3	16.557	849	2.1	33.6	.1				84
Wet Bulb	744989	22817	26.9	12.439	848	3.5	48.1					84
Dew Point	308935	13393	15.8	10.754	848	8.8	82.2					84

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — FEB MONTH

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
66/ 65										.1			.2	.				3	3		
64/ 63										.1								1	1		
62/ 61									.5	.4	.2	.1						10	10		
60/ 59										.4	.1							4	4		
58/ 57								.2	.7	.6	.2							15	15		
56/ 55						.1	.6	.1	.2	.4								12	12		
54/ 53						.1	1.2	.8	.9	.1								27	27		
52/ 51					.4	.6	1.4	1.2	.4									33	33		
50/ 49				.1	.5	1.3	2.1	.7	.4									43	43		
48/ 47				.4	.8	1.3	1.1	.6										35	35		1
46/ 45			.1	.6	1.7	2.7	1.7	.1										58	58	6	
44/ 43				.4	1.8	3.0	1.5	.1										57	57	14	
42/ 41				1.3	1.9	2.0	.4											47	47	51	
40/ 39			.1	2.5	2.6	1.4	.6											61	61	54	
38/ 37			.9	2.4	1.7	.9	.2											52	52	68	2
36/ 35		.1	.7	2.4	.2	.2												31	31	75	7
34/ 33		.1	2.1	.9	.6													32	32	94	7
32/ 31		.2	.5	1.5														19	19	77	9
30/ 29		.4	.9	.9	.1													20	20	56	26
28/ 27		1.4	1.3	.9	.1													32	32	43	49
26/ 25		2.4	.8	.5														31	31	35	78
24/ 23	.2	1.3	.4															16	16	40	74
22/ 21	.1	2.1		.2														21	21	23	81
20/ 19	.5	1.4		.1														17	17	30	79
18/ 17	.5	1.3	.2															17	17	17	72
16/ 15	.4	1.8	.1															19	20	16	66
14/ 13	.9	1.2																18	19	25	49
12/ 11	.5	1.1	.2															15	16	17	48
10/ 9	.8	1.8	.1															23	23	17	36
8/ 7	.4	1.8																18	18	16	33
6/ 5		1.8																15	15	16	19
4/ 3		2.0																17	17	15	19
2/ 1		.8																7	7	15	9
0/ -1	.5	.2																6	6	9	16

Element (X)	Σx'	Σx	x̄	σz	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	±32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM JUL 64 0-26-5 (OL A)

USAFETAC

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME	YEARS		MONTH
			PAGE 2	1500-1700 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-2/ -3																				2	22
-4/ -5	.1	.7																7	7	1	11
-6/ -7		.4																3	3	6	5
-8/ -9	.1	.1																2	2	5	7
-10/-11	.2																	2	2	2	6
-12/-13																					1
-14/-15																					2
-16/-17																					2
-18/-19																					7
-20/-21																					4
TOTAL	5.2	24.3	8.6	15.1	12.3	13.6	10.3	4.4	3.0	1.9	.9	.1	.2					846	849	846	846

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2655051	44477	52.6	19.361	846							84
Dry Bulb	1182665	28657	33.8	15.937	849	2.0	32.5					84
Wet Bulb	752541	23133	27.3	11.917	846	2.5	48.0					84
Dew Point	313062	13704	16.2	10.382	846	8.2	82.4					84

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM JUL 64 0-26-5 (OL A)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME	YEARS		MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
56/ 55								.1		.1								2	2		
54/ 53						.1												1	1		
52/ 51							.2	.4										5	5		
50/ 49						.2	.4	.4	.1									9	9		
48/ 47				.2	.1	.6	.6	.1										14	14		
46/ 45				.5	1.5	1.9	.5	.4										40	40		
44/ 43			.1	.5	2.4	.6	.4	.1										34	34		
42/ 41			.2	1.8	1.4	1.1	.4											41	41	11	
40/ 39			.8	2.7	2.4	.7												56	56	8	
38/ 37		.1	1.1	3.6	2.4	.2												62	62	41	
36/ 35		.5	1.4	4.1	1.3													61	6˙	62	1
34/ 33		.1	3.8	3.8	.7	.2												73	73	62	8
32/ 31		.8	2.6	1.7	.5													47	47	95	6
30/ 29	.4	1.5	2.6	1.2	.1													49	49	105	22
28/ 27	.5	1.7	1.8	.7														39	39	77	55
26/ 25	.6	1.9	.8															28	28	54	82
24/ 23	.1	2.3	.8															27	27	43	84
22/ 21	.4	.9	1.0															27	27	34	69
20/ 19	.5	2.4	.2															26	26	29	66
18/ 17	1.2	1.3																21	21	32	83
16/ 15	.5	1.0																12	12	17	77
14/ 13	.8	.5	.1															12	12	12	39
12/ 11	1.1	1.4																21	21	15	26
10/ 9	.7	1.1																15	18	22	44
8/ 7	1.0	1.3																19	23	14	28
6/ 5	.8	2.5																28	29	19	18
4/ 3	.5	2.3																23	25	21	18
2/ 1	.1	1.8																16	16	25	11
0/ -1	.6	.6																10	10	16	17
-2/ -3	.1	.5																5	5	9	18
-4/ -5																					12
-6/ -7		.2																2	2	1	15
-8/ -9	.4																	3	3	4	9
-10/-11	.7																	6	6	6	8

Element (X)	Σx^2			Σx		$\bar{x}$		σ_x		No. Obs.		Mean No. of Hours with Temperature					
												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																		
Dry Bulb																		
Wet Bulb																		
Dew Point																		

USAFETAC FORM JUL 64 0-26-5 (O.A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

PAGE 2   1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-12/-13	.5																	4	4	4	5
-14/-15	.1																	1	1	1	3
-16/-17																					1
-18/-19																					3
-20/-21																					6
-22/-23																					2
-24/-25																					3
TOTAL	11.4	27.7	17.5	20.7	12.9	5.6	2.5	1.4	.1	.1									849	839	839
																		839			

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3435866	51914	61.9	16.336	839							84
Dry Bulb	822397	23503	27.7	14.232	849	3.1	44.6					84
Wet Bulb	589690	19982	23.8	11.653	839	.4.1	65.6					84
Dew Point	304184	12978	15.5	11.110	839	10.2	83.1					84

USAFETAC FORM JUL 64 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME	YEARS		MONTH

PAGE 1   2100-2300 HOURS (L. S. T.)

Temp. (F)	\WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53							.2												2	2		
52/ 51							.1												1	1		
50/ 49					.1	.1													2	2		
48/ 47				.1	.2	.1													4	4		
46/ 45					.2	.7	.1	.1											10	10		
44/ 43				1.1	1.3	1.0		.2											30	30		
42/ 41				1.7	.8	.7	.4												30	30	7	
40/ 39		.1	.7	2.8	1.2	.6													45	45	2	
38/ 37			2.0	3.8	1.2	.1													60	60	14	
36/ 35		.1	1.6	3.1	.7														46	46	48	1
34/ 33	.1	.8	2.6	3.3	.7														64	64	57	3
32/ 31		1.2	5.4	1.3	.1														67	67	84	7
30/ 29	.1	1.4	3.7	.7	.2														52	52	76	20
28/ 27	1.0	3.3	3.7	.6															72	72	105	62
26/ 25	.8	2.0	1.0	.1															33	33	72	66
24/ 23	.6	2.8	.5																32	32	59	66
22/ 21	.5	1.9	.7																26	26	30	91
20/ 19	1.2	2.4	.5																34	34	35	80
18/ 17	.6	2.4	.2																27	27	30	69
16/ 15	.7	.7																	12	12	25	69
14/ 13	1.0	1.4																	20	20	17	44
12/ 11	1.3	.4																	14	14	20	30
10/ 9	.1	1.4																	13	13	4	41
8/ 7	1.4	1.3	.4																26	29	24	19
6/ 5	1.7	1.9																	30	31	34	13
4/ 3	.1	1.7																	15	16	15	20
2/ 1	.7	1.6																	19	25	18	19
0/ -1	1.8																		15	16	25	18
-2/ -3	1.0	.7																	14	15	11	15
-4/ -5	.1																		1	1	4	10
-6/ -7	.4																		3	3	3	21
-8/ -9	.5																		4	4	4	16
-10/-11	.6																		5	5	5	10
-12/-13	.2																		2	2	2	6

Element (X)	$\Sigma_X{}^2$			Σ_X			$\bar{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME	YEARS		MONTH

PAGE 2 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-14/-15	.2																	2	2	2	5
-16/-17																					2
-18/-19	.1																	1	1	1	3
-20/-21	.4																	3	3	3	3
-22/-23																					1
-24/-25																					2
-26/-27																					1
-28/-29																					2
-32/-33																					1
TOTAL	17.2	29.7	23.0	18.7	6.9	3.3	.8	.4											849		836
																		836		836	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3873014	55474	66.4	15.162	836							84
Dry Bulb	691125	21117	24.9	13.986	849	5.1	54.9					84
Wet Bulb	521926	18408	22.0	11.817	836	6.0	71.1					84
Dew Point	296164	12364	14.8	11.649	836	11.7	83.6					84

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	YEARS	MONTH

PAGE 1 ALL
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
68/ 67														.0				1	1		
66/ 65										.0		.0	.0					4	4		
64/ 63										.0	.0							3	3		
62/ 51								.1		.1	.0	.0						16	16		
60/ 59							.0	.0	.1	.1	.0	.0						10	10		
58/ 57							.1	.2	.1	.1								31	31		
56/ 55						.1		.3	.1	.1	.1							40	40		
54/ 53					.1	.4		.3	.2	.0								65	65		
52/ 51				.1	.2		.6	.4	.1									94	94		
50/ 49				.0	.1	.4	.6	.4	.1									114	114		
48/ 47				.2	.3	.7	.5	.2	.0									129	129	1	
46/ 45			.0	.3	1.2	1.1	.7	.3										236	236	11	
44/ 43			.0	.7	1.5	1.4	.5	.1										280	280	45	
42/ 41		.0	.1	1.3	1.4	1.2	.3											290	290	132	
40/ 39		.0	.6	2.6	1.9	.8	.3											416	416	158	
38/ 37		.0	1.5	2.9	1.4	.4	.0											422	422	284	4
36/ 35		.2	1.8	2.7	.8	.2												378	378	411	16
34/ 33	.0	.4	2.0	2.6	.6	.1												388	388	579	39
32/ 31	.0	.7	2.6	1.4	.2													338	338	626	61
30/ 29	.1	1.1	2.9	1.1	.1													356	356	539	200
28/ 27	.3	2.1	2.5	.7	.0													375	375	585	414
26/ 25	.5	2.1	1.2	.2														273	273	458	560
24/ 23	.4	2.2	.9	.0														244	244	390	489
22/ 21	.4	2.2	.6	.1														224	224	300	576
20/ 19	.7	2.1	.4	.0														214	214	275	617
18/ 17	.8	1.7	.3															188	191	222	610
16/ 15	1.0	1.2	.2															165	167	202	540
14/ 13	.9	1.0	.1															136	143	153	403
12/ 11	1.0	1.2	.1															150	152	159	317
10/ 9	.7	1.4	.0															140	150	121	324
8/ 7	.9	1.3	.1															152	165	153	219
6/ 5	.7	1.4																143	147	143	152
4/ 3	.6	1.6																150	161	142	135
2/ 1	.9	1.5																162	175	166	125

Element (X)	Σ_{X^2}		Σ_X		$\bar{X}$		σ_X		No. Obs.		Mean No. of Hours with Temperature					
Rel. Hum.										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																
Wet Bulb																
Dew Point																

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		FEB
STATION	STATION NAME		YEARS	MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
0/ -1	1.2	.3																100	108	158	124
-2/ -3	.6	.3																61	64	67	146
-4/ -5	.4	.2																45	46	42	111
-6/ -7	.5	.2																50	51	53	108
-8/ -9	.9	.0																61	61	69	119
-10/-11	.4																	28	28	28	74
-12/-13	.3																	20	20	20	42
-14/-15	.1																	5	5	5	38
-16/-17	.0																	3	3	3	33
-18/-19	.1																	5	5	5	50
-20/-21	.1																	4	4	4	31
-22/-23	.1																	5	5	5	14
-24/-25																					6
-26/-27																					7
-28/-29																					5
-30/-31																					2
-32/-33																					3
TOTAL	14.7	26.7	18.1	16.8	9.9	6.5	3.8	2.0	.8	.5	.3	.0	.0	.0				6714	6792	6714	6714

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	27583774	414252	61.7 17.790		6714							672
Dry Bulb	6654279	184639	27.2 15.516		6792	39.6	383.4	.1				672
Wet Bulb	4650208	155714	23.2 12.440		6714	45.9	509.8					672
Dew Point	2334785	98267	14.6 11.556		6714	91.4	666.1					672

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
58/ 57								.1										1	1		
54/ 53							.1	.1										2	2		
52/ 51						.1	.2											3	3		
50/ 49				.4		.4												8	8		
48/ 47				.4	.6	1.5	.											24	24		
46/ 45				.4	1.3	.9	.2											26	26		
44/ 43				.6	1.4	.6	.2											27	27	6	
42/ 41			.2	1.3	1.5	.2	.1											31	31	11	
40/ 39		.1	1.3	4.1	2.3	.6												78	78	19	
38/ 37			1.3	2.2	1.0													41	41	33	5
36/ 35	.1	.3	1.5	2.8	.4													48	48	53	3
34/ 33		.5	3.3	3.0	.6													70	70	78	9
32/ 31	.3	1.9	1.8	2.2														58	58	72	15
30/ 29		1.9	3.3	1.3	.1													62	62	89	42
28/ 27	.5	2.3	4.1	.9														72	72	83	48
26/ 25	1.0	3.3	2.4	.1														63	63	79	96
24/ 23	1.5	3.0	1.0															51	51	104	95
22/ 21	1.0	4.1	.6															53	53	53	85
20/ 19	1.3	3.1	.1															42	42	62	93
18/ 17	.4	2.2																24	24	32	76
16/ 15	.3	1.2																14	14	17	82
14/ 13	.6	1.1																16	16	19	68
12/ 11	.6	2.3																27	27	18	47
10/ 9	.4	1.3																16	16	21	43
8/ 7	1.0	.5																14	14	19	22
6/ 5	.5	.1																6	6	9	20
4/ 3	.8	.4																11	11	8	16
2/ 1	.5	.8																12	12	13	13
0/ -1	1.3	.1																13	13	14	7
-2/ -3	.2																	2	2	3	8
-4/ -5	.1																	1	1	1	6
-6/ -7	.1	.2																3	3	2	4
-8/ -9	.2																	2	2	3	9
-10/-11	.1																	1	1		4

Element (X)	Σx²		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

USAF ETAC   FORM 0-26.5 (OL A)   JUL 64   REVISE: PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME		YEARS	MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-12/-13	.2																	2	2	2	3
-14/-15	.2																	2	2	2	1
-16/-17	.1																	1	1	1	1
-18/-19	.1																	1	1	1	2
-20/-21	.1																	1	1	1	1
-22/-23	.1																	1	1	1	1
-24/-25																					1
-28/-29																					2
-32/-33																					2
TOTAL	13.9	30.8	21.0	19.7	9.2	4.4	.9	.2											930		930
																		930		930	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4423341	62371	67.1	16.086	930							
Dry Bulb	865684	25898	27.8	12.471	930	3.0	57.1					93
Wet Bulb	653361	22685	24.4	10.376	930	3.2	73.0					93
Dew Point	372627	16255	17.5	9.761	930	5.2	91.3					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME		YEARS	MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53							.2											2	2		
52/ 51							.1											1	1		
50/ 49						.1	.1											2	2		
48/ 47				.2	.8	.3												12	12		
46/ 45			.3	.4	1.0	.5	.2											23	23		
44/ 43				1.0	1.1	.8	.2											28	28		
42/ 41			.4	1.1	1.2	.4	.1											30	30	9	
40/ 39		.1	1.1	2.3	1.6	.8												54	54	18	
38/ 37		.1	1.3	2.2	1.1	.3												46	46	29	1
36/ 35		.2	1.3	3.5	.8	.4												58	58	35	5
34/ 33			1.3	2.6	2.9	.5												68	68	67	6
32/ 31	.4	2.3	2.7	1.8	.1													68	68	69	22
30/ 29	.1	2.2	2.6	1.4														58	58	104	41
28/ 27	.5	2.3	3.7	.6														66	66	87	42
26/ 25	1.1	4.0	2.2															67	67	77	91
24/ 23	1.7	4.0	.9															61	61	105	61
22/ 21	1.5	3.8	.8															56	56	62	92
20/ 19	1.6	3.0	.2															45	45	57	107
18/ 17	1.0	2.6	.1															34	34	40	100
16/ 15	.2	1.1	.1															13	13	25	85
14/ 13	.6	1.1																16	16	19	38
12/ 11	.9	1.0	.1															18	18	15	50
10/ 9	.8	1.1	.2															19	19	20	59
8/ 7	1.1	.6																16	16	19	21
6/ 5	.8	.4																11	11	15	14
4/ 3	.5	.1																6	6	5	21
2/ 1	.9	.5																13	13	11	14
0/ -1	1.3	.3																15	15	15	7
-2/ -3	.3	.3																6	6	9	7
-4/ -5	.1																	1	1	1	6
-6/ -7	.2	.1																3	3	3	6
-8/ -9																					12
-10/-11	.2																	2	2	2	3
-12/-13	.4																	4	4	4	3

Element (X)	Σ_{x^2}			Σ_x			$\bar{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-14/-15	.4																	4	4	4	
-16/-17																					1
-18/-19	.2																	2	2	2	1
-20/-21	.1																	1	1	1	2
-22/-23	.1																	1	1	1	3
-24/-25																					4
-26/-27																					2
-28/-29																					1
-30/-31																					1
-32/-33																					1
TOTAL	17.1	32.4	20.4	17.4	8.1	3.7	1.0											930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4605542	63714	68.5	16.090	930	3.9	60.6					93
Dry Bulb	804653	24793	26.7	12.437	930	4.2	77.2					93
Wet Bulb	616424	21856	23.5	10.519	930	6.0	91.8					93
Dew Point	362264	15682	16.9	10.262	930							93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0600-0800   HOURS (L. S. T.)

Temp. (F)	\<br\>0	WBD\<br\>1-2	\<br\>3-4	\<br\>5-6	\<br\>7-8	\<br\>9-10	\<br\>11-12	\<br\>13-14	\<br\>15-16	\<br\>17-18	\<br\>19-20	\<br\>21-22	\<br\>23-24	\<br\>25-26	\<br\>27-28	\<br\>29-30	\<br\>≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53						.1	.1											2	2		
52/ 51							.3											3	3		
50/ 49					.3	.1	.1											5	5		
48/ 47				.1	.2	.5	.1											9	9		
46/ 45				.9	2.2	.9	.2											38	38		
44/ 43				1.0	1.5	.2												26	26	2	
42/ 41			.3	2.6	1.3	.3	.1											43	43	5	
40/ 39			.5	2.3	.8	.5	.1											39	39	25	
38/ 37			1.5	2.3	.6	.3												44	44	38	
36/ 35		.6	1.5	2.2	.8													47	47	51	4
34/ 33	.1	1.0	2.9	2.8	1.0													72	72	59	8
32/ 31	.6	2.0	4.1	1.9	.4													85	85	66	20
30/ 29	.1	2.2	3.4	1.1	.1													64	64	87	48
28/ 27	.6	2.7	3.8	.5														71	71	105	59
26/ 25	.5	4.1	1.2															57	57	88	75
24/ 23	.8	3.3	1.0															47	47	81	88
22/ 21	1.3	2.5	.5															40	40	58	89
20/ 19	2.4	2.9	.1															50	50	57	95
18/ 17	.9	2.3																29	29	31	98
16/ 15	.5	.9	.1															14	14	27	74
14/ 13	.4	1.3	.4															20	20	15	36
12/ 11	1.2	1.1																21	21	24	44
10/ 9	1.0	1.4																22	22	20	53
8/ 7	1.0	.3																12	12	18	24
6/ 5	.4	.3																7	7	9	16
4/ 3	.9	.2																10	10	10	17
2/ 1	.6	.4																10	10	7	15
0/ -1	.9																	8	8	12	13
-2/ -3	.6	.4																10	10	7	6
-4/ -5	.3																	3	3	6	9
-6/ -7	.6	.1																7	7	7	3
-8/ -9	.1																	1	1	1	8
-10/ -11	.4																	4	4	4	1
-12/ -13	.2																	2	2	2	7

Element (X)	Σx²		Σx		x̄	σx	No. Obs.		Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-14/-15	.4																	4	4	4	5
-16/-17	.2																	2	2	2	2
-18/-19	.2																	2	2	2	1
-20/-21																					3
-24/-25													,								3
-26/-27																					3
-28/-29																					3
TOTAL	17.7	30.0	21.5	17.5	9.1	3.0	1.1											930	930	930	930

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4561698	63394	68.2	16.087	930							93
Dry Bulb	830728	25108	27.0	12.828	930	4.3	60.2					93
Wet Bulb	634624	22106	23.8	10.840	930	4.7	75.0					93
Dew Point	373926	15868	17.1	10.539	930	6.7	91.8					93

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION — MALMSTROM AFB MT/GREAT FALLS (STATION NAME) — 68-77 YEARS — MAR MONTH

PAGE 1   0900-1100 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
66/65												.1						1	1		
64/63								.1	.4	.1								6	6		
62/61								.2			.2							4	4		
60/59						.1		.1	.3	.1								6	6		
58/57					.2	.4	1.0		.6	.2								23	23		
56/55					.2	.6	1.1											18	18		
54/53				.1		.6	1.6	.4	.1	.2								29	29		
52/51				.2			1.5	.5										21	21		
50/49			.1	.2		1.2	.8	.2	.1									24	24	1	
48/47			.2		.8	3.0	1.1	.3										50	50	11	
46/45		.1	.2		2.0	1.8	1.6	.1										55	55	10	
44/43				1.0	1.6	1.9	.8											49	49	35	
42/41		.1	.4	1.5	1.9	2.4	.3											62	62	43	1
40/39			.2	2.2	2.3	2.6	.2											69	69	40	2
38/37	.1		.9	1.6	2.4	.8												53	53	72	3
36/35	.1	.2	1.3	2.2	2.0	.2												56	56	61	10
34/33	.1	1.3	2.0	1.7	.9	.2												58	58	70	13
32/31	.1	1.3	1.4	1.1	.2													38	38	105	29
30/29	.2	1.5	1.7	.2	.2													36	36	98	48
28/27	.1	1.7	1.2	.5														33	33	71	92
26/25		2.0	.8	.1														27	27	43	74
24/23	1.0	1.9	.3															30	30	44	80
22/21	.4	1.4	.9															25	25	32	98
20/19	.5	1.7	.8															28	28	19	92
18/17	.2	1.0	.3															14	14	27	66
16/15		.6	.2															8	8	13	61
14/13	.5	.8																12	12	16	49
12/11	.9	1.8																25	25	24	47
10/9	1.2	1.2																22	22	21	38
8/7	.5	.2																7	7	11	38
6/5	.6																	6	6	8	25
4/3	.4	.4																8	8	5	18
2/1	.3	.3																6	6	6	9
0/-1	.4																	4	4	7	5

Element (X)	ΣX²		ΣX		X̄		σₓ	No. Obs.		Mean No. of Hours with Temperature					
									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM JUL 64 0-26-5 (OL A)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-2/ -3	.1	.4																5	5	2	4
-4/ -5		.1																1	1	4	1
-6/ -7	.4																	4	4	4	5
-8/ -9		.1																1	1	1	3
-10/-11	.3																	3	3	3	2
-12/-13	.2													.·				2	2	2	3
-14/-15	.1																	1	1	1	5
-16/-17																					2
-18/-19											.·										1
-22/-23																					3
-24/-25																					3
TOTAL	9.0	20.3	12.6	12.4	14.8	15.2	9.0	4.1	1.6	.6	.2	.1							930		930
																		930		930	

Element (X)	Σx²	Σx	X̄	σx	No. Obs.		Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≤80 F	≥93 F	Total	
Rel. Hum.	3296156	52180	56.1	19.915	930								
Dry Bulb	1302434	32074	34.5	14.535	930	2.1	34.6					93	
Wet Bulb	870100	26546	28.5	10.998	930	2.4	56.7					93	
Dew Point	411757	17319	18.6	9.801	930	3.7	90.1					93	

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
70/ 69														.1				1	1		
68/ 67											.3	.1	.2					6	6		
66/ 65									.1	.4	.1	.1						7	7		
64/ 63									.8	.9	.1							16	16		
62/ 61								.5	1.1	.2	.4							21	21		
60/ 59							.1	.1	1.7	.5	.2							25	25		
58/ 57						.2		.6	1.4	.5	.2							28	28		
56/ 55						.1	.3	2.2	1.1	.4								38	38		
54/ 53						.1	1.6	2.3	.4	.2	.1							44	44		
52/ 51			.1			.4	1.1	1.4	.4	.1								33	33		
50/ 49				.1	.2	.4	1.8	1.3	.1									37	37	7	
48/ 47			.1	.1	.9	1.5	2.8	1.0										59	59	28	
46/ 45				.1	1.7	2.6	3.4	1.3										85	85	17	
44/ 43		.1	.1	.9	.5	1.6	3.0	.2										60	60	48	1
42/ 41			.1	.4	1.0	2.2	1.2	.2										47	47	56	2
40/ 39		.1		1.1	.6	1.5	.2											33	33	72	
38/ 37		.2	.9	1.4	.4	.9												35	35	79	5
36/ 35		.4	1.1	1.6	1.2	.3												43	43	88	4
34/ 33			.9	1.3	.3	1.2	.3											37	37	84	17
32/ 31	.2	1.3	1.5	.3	.4													35	35	90	27
30/ 29	.1	.6	1.3	.9	.3													30	30	80	47
28/ 27		1.7	1.4	.8														36	36	38	67
26/ 25	.2	1.7	1.0	.1														28	28	47	83
24/ 23	.2	1.7	.4															22	22	41	89
22/ 21		.5	.8															12	12	27	75
20/ 19	.5	1.4	.2															20	20	20	81
18/ 17	.3	.9	.1															12	12	21	86
16/ 15	.3	.9	.2															13	13	11	68
14/ 13	.4	1.9																22	22	19	66
12/ 11	.2	1.2																13	13	18	67
10/ 9	.3	1.1																13	13	15	41
8/ 7	.1	.2																3	3	7	27
6/ 5	.2	.1																3	3	3	30
4/ 3		.2																2	2	1	19

Element (X)	Σ_{X^2}		Σ_X		$\bar{X}$		σ_x	No. Obs.	Mean No. of Hours with Temperature						
									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME		YEARS	MONTH

PAGE 2   1200-1400
HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
2/ 1																				2	8
0/ -1	.4	.1																5	5	4	3
-2/ -3		.1																1	1	1	2
-4/ -5		.3																3	4	1	3
-6/ -7		.1																1	1	3	1
-8/ -9																				1	2
-10/-11																					1
-12/-13																					2
-16/-17																					1
-18/-19																					2
-20/-21																					1
-22/-23																					1
TOTAL	3.7	17.9	10.5	8.1	8.5	12.2	15.6	11.1	7.1	3.3	1.5	.2	.2	.1				929	930	529	929

Element (X)	Σx²	Σx	X̄	σx	No. Obs.	Mean No. of Hours with Temperature
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2532689	44293	47.7	21.296	929							93
Dry Bulb	1654497	36803	39.6	14.602	930	1.1	27.5	.7				93
Wet Bulb	1008651	29159	31.4	10.033	929	1.0	45.0					93
Dew Point	396156	17390	18.7	8.724	929	1.9	90.1					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1500-1700
HOURS (L. S. T.)

Temp. (F)	\ WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31				
70/ 69												.4		.2				6	6		
68/ 67											.4		.1					5	5		
66/ 65										.4	.1							5	5		
64/ 63									.9	1.4	.4	.2						27	27		
62/ 61								.2	.4	1.1								16	16		
60/ 59								.5	.9	.5	.3							21	21		
58/ 57							.1	.8	1.5	1.2	.1							34	34		
56/ 55						.1	.8	1.4	1.4	.2								36	36		
54/ 53					.1	.2	.5	1.2	.5	.2								26	26		
52/ 51				.1	.1	.6	1.3	2.3	.6									47	47		
50/ 49					.2	1.0	2.3	1.8	.5									54	54	8	
48/ 47				.3	.8	1.7	1.6	2.3	.2									64	64	19	
46/ 45		.1		.5	1.1	3.0	2.6	1.3										80	80	30	
44/ 43		.1		.9	1.2	1.0	2.0	.3										51	51	47	
42/ 41			.1	.8	1.4	1.9	1.6	.1										55	55	52	2
40/ 39			.2	.8	.8	1.4	.5											34	34	82	1
38/ 37		.1	.4	1.1	1.4	.9	.2											38	38	77	1
36/ 35		.4	1.2	.5	.8	.4	.2											33	33	105	5
34/ 33		.8	1.1	1.4	1.0	.1	.2											42	42	70	15
32/ 31		.2	1.5	1.1	.2													28	28	86	20
30/ 29		1.2	1.3	.9	.1													32	32	68	51
28/ 27		1.0	1.9	.4														31	31	53	66
26/ 25	.2	2.6	.9	.3														37	37	50	72
24/ 23	.1	1.0	.2	.2														14	14	45	89
22/ 21	.3	1.6	.8															25	25	25	78
20/ 19		.9	.1															9	9	26	92
18/ 17	.3	.8																10	10	10	76
16/ 15	.3	1.6																18	18	15	77
14/ 13	.8	.5	.5															17	17	20	81
12/ 11	.1	.8	.1															9	9	10	57
10/ 9	.2	.8																9	9	11	58
8/ 7		.4																4	4	8	25
6/ 5		.1																1	1	1	19
4/ 3		.2																2	2	1	17

Element (X)	Σx^2		Σx		$\bar{x}$	σ_x	No. Obs.		Mean No. of Hours with Temperature						
Rel. Hum.								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb														
Wet Bulb														
Dew Point														

USAFETAC   FORM 0-26-5 (OL A) FORM JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
2/ 1	.1																	1	1	2	7
0/ -1	.2	.2																4	5	2	2
-2/ -3		.1																1	1	3	6
-4/ -5		.2																2	2	2	3
-6/ -7		.1																1	1	1	1
-10/-11																					1
-12/-13																					2
-14/-15																					1
-16/-17																					1
-18/-19																					2
-20/-21																					1
TOTAL	2.7	15.7	10.3	9.3	9.0	12.4	14.0	12.2	7.0	5.1	1.4	.6	.1	.2					930		929
																		929		929	

Element (X)	Σx²	Σx	X̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2365185	42659	45.9	20.925	929							93
Dry Bulb	1708287	37577	40.4	14.300	930	.9	25.6	1.1				93
Wet Bulb	1026738	29554	31.8	9.657	929	.8	43.9					93
Dew Point	384413	17213	18.5	8.400	929	2.0	90.6					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH
			PAGE 1	1800-2000
				HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
66/ 65												.1						1	1		
64/ 63										.3								3	3		
62/ 61									.1	.1								2	2		
60/ 59									.5	.1								6	6		
58/ 57						.1	.6	.3	.2									12	12		
56/ 55						.6	.4	.5	.1									16	16		
54/ 53					.1	.1	.9	.8	.1									18	18		
52/ 51						.8	1.5	.3										24	24		
50/ 49					.5	.6	.9	.1	.1									21	21		
48/ 47				.1	1.4	1.5	1.4	.3										44	44	2	
46/ 45			.1		1.4	2.5	1.3											49	49	7	
44/ 43		.1	.4	.9	2.2	2.2	1.4	.1										67	67	24	
42/ 41		.2	.4	1.0	2.4	1.9	.8											62	62	35	
40/ 39			1.3	2.3	3.2	1.3	.2											77	77	47	2
38/ 37		.1	1.0	2.0	2.0	.9	.1											57	57	72	2
36/ 35		.1	1.3	1.8	1.9	.9												56	56	73	6
34/ 33			.5	1.7	1.3	1.6	.1											49	49	89	13
32/ 31	.1	.9	1.7	2.0	.6													50	50	98	15
30/ 29		1.4	2.5	.3	.1													40	40	79	50
28/ 27		1.8	1.9	.6	.2													43	43	91	73
26/ 25	.9	2.7	1.5	.2														49	49	66	75
24/ 23	.4	2.0	.8															30	30	52	82
22/ 21	.4	2.5	.5															32	32	49	95
20/ 19	.1	1.8	.1															19	19	27	82
18/ 17	.1	1.5	.1															16	16	21	95
16/ 15	.4	1.4																17	17	19	81
14/ 13	1.0	.6																15	15	23	64
12/ 11	.5	.1																6	6	7	61
10/ 9	.3	.9	.1															12	12	5	51
8/ 7	.4	.4																8	8	12	25
6/ 5	.4	.1																5	5	7	13
4/ 3	.2	.3																5	5	4	10
2/ 1	.1	.2																3	3	3	5
0/ -1	.1																	1	1	3	6

Element (X)	Σx²			Σx		x̄	σx		No. Obs.	Mean No. of Hours with Temperature						
Rel. num.										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																
Wet Bulb																
Dew Point																

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-2/ -3	.4	.6																10	10	8	3
-4/ -5																				2	4
-6/ -7																					4
-8/ -9	.1																	1	1	1	1
-10/-11	.2																	2	2	2	
-12/-13	.1																	1	1	1	5
-14/-15	.1																	1	1	1	2
-16/-17																					2
-22/-23																					1
-24/-25																					2
TOTAL	6.6	20.4	15.5	12.6	17.7	12.7	9.1	2.7	1.7	.9		.1						930	930	930	930

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3232792	51798	55.7	19.349	930							93
Dry Bulb	1262206	32066	34.5	12.983	930	1.6	36.6					93
Wet Bulb	847327	26587	28.6	9.691	930	1.3	58.1					93
Dew Point	389421	17249	18.5	8.649	930	3.0	90.7					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 1   2100-2300
HOURS (L. S T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57								.1	.1									2	2		
56/ 55						.1	.4											5	5		
54/ 53					.1		.1	.1										3	3		
52/ 51					.1	.3	1.0	.2										15	15		
50/ 49					.4	.3	.5	.1										13	13		
48/ 47					.4	1.1	.2											16	16		
46/ 45				.3	1.4	1.3		.1										29	29	3	
44/ 43			.1	1.0	2.4	.8												39	39	7	
42/ 41			.2	1.2	2.0	.5												37	37	17	
40/ 39			.6	1.8	3.0	.5												56	56	23	
38/ 37		.4	1.1	3.2	1.9	.5												67	67	46	2
36/ 35	.1	.8	1.8	4.2	1.8	.1												82	82	53	8
34/ 33		1.1	2.0	2.6	.8													60	60	68	10.
32/ 31	.2	1.3	2.2	2.7	.1													60	60	96	13
30/ 29	.3	2.2	3.1	1.6	.1													68	68	99	36
28/ 27	.8	2.0	3.3	1.3														69	69	99	76
26/ 25	.6	2.3	1.8	.2														46	46	76	86
24/ 23	1.6	3.2	.9															53	53	84	76
22/ 21	.4	3.9	.1															41	41	59	89
20/ 19	.5	3.0																33	33	46	103
18/ 17	.5	1.3																17	17	29	90
16/ 15	.4	1.7	.2															22	22	18	95
14/ 13	.4	2.3	.1															26	26	22	59
12/ 11	.3	.5																8	8	19	39
10/ 9	.9	.3																11	11	12	47
8/ 7	.6	.2																8	8	10	34
6/ 5	.8																	7	7	7	9
4/ 3	.3	.1																4	4	4	11
2/ 1	.1	.4																5	5	1	10
0/ -1	1.0	.2																11	11	13	4
-2/ -3	.3	.1																4	4	5	4
-4/ -5	.1	.2																3	3	3	3
-6/ -7	.1																	1	1	2	4
-8/ -9	.2																	2	2	2	5

Element (X)	Σ_{X^2}		Σ_X		$\overline{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}																TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-10/-11	.1																	1	1	1	
-12/-13	.2																	2	2	2	3
-14/-15	.2																	2	2	2	5
-16/-17	.1																	1	1	1	2
-18/-19	.1																	1	1	1	1
-20/-21																					1
-22/-23																					2
-26/-27																					1
-28/-29																					2
TOTAL	11.5	27.5	17.6	20.1	14.6	5.6	2.3	.6	.1										930		930
																		930		930	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4054038	59318	63.8	17.066	930							
Dry Bulb	971226	27844	29.9	12.170	930	2.8	50.6					93
Wet Bulb	711905	24063	25.9	9.804	930	3.2	71.3					93
Dew Point	383054	16852	18.1	9.145	930	3.7	91.0					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 1 ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
70/ 69												.1		.0				7	7		
68/ 67											.1	.0	.0					11	11		
66/ 65									.0	.1	.0	.0						14	14		
64/ 63								.0	.3	.3	.1	.0						52	52		
62/ 61								.1	.2	.2	.1							43	43		
60/ 59							.0	.1	.4	.2	.1							58	58		
58/ 57						.1	.1	.4	.5	.3	.0							100	100		
56/ 55						.1	.3	.6	.4	.1								113	113		
54/ 53					.1	.1	.6	.6	.1	.1	.0							126	126		
52/ 51			.0	.0	.1	.3	.9	.6	.1	.0								147	147		
50/ 49				.1	.2	.5	.8	.4	.1									164	164	16	
48/ 47			.0	.2	.7	1.4	.9	.5	.0									278	278	60	
46/ 45		.0	.1	.3	1.5	1.7	1.2	.3										385	385	67	
44/ 43		.0	.1	.9	1.5	1.1	1.0	.1										347	347	169	1
42/ 41		.0	.3	1.2	1.6	1.2	.5	.0										367	367	228	5
40/ 39		.0	.7	2.1	1.8	1.2	.2											440	440	326	5
38/ 37	.0	.1	1.0	2.0	1.4	.6	.0											381	381	446	19
36/ 35	.0	.4	1.4	2.4	1.2	.3	.0											423	423	539	45
34/ 33	.0	.9	2.1	2.0	.9	.1	.0											456	456	585	91
32/ 31	.3	1.4	2.1	1.6	.3													422	422	682	161
30/ 29	.1	1.6	2.4	1.0	.1													390	390	704	363
28/ 27	.3	1.9	2.7	.7	.0													421	421	627	523
26/ 25	.6	2.8	1.5	.1														374	374	526	652
24/ 23	.7	2.5	.7	.0														308	308	556	660
22/ 21	.7	2.5	.6															284	284	365	701
20/ 19	.9	2.2	.2															246	246	314	745
18/ 17	.5	1.5	.1															156	156	211	687
16/ 15	.3	1.2	.1															119	119	145	623
14/ 13	.6	1.2	.1															144	144	153	461
12/ 11	.6	1.1	.0															127	127	135	412
10/ 9	.6	1.0	.0															124	124	125	390
8/ 7	.6	.4																72	72	104	216
6/ 5	.5	.1																46	46	59	146
4/ 3	.4	.3																48	48	38	129

Element (X)	Σx²			Σx			x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
													≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	YEARS	MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
2/ 1	.3	.3																50	50	45	81
0/ -1	.7	.2																61	62	70	47
-2/ -3	.3	.3																39	39	38	40
-4/ -5	.1	.1																14	15	20	35
-6/ -7	.2	.1																20	20	22	28
-8/ -9	.1	.0																7	7	9	40
-10/-11	.2																	13	13	13	12
-12/-13	.2																	13	13	13	28
-14/-15	.2																	14	14	14	19
-16/-17	.1																	4	4	4	12
-18/-19	.1																	6	6	6	10
-20/-21	.0																	2	2	2	9
-22/-23	.0																	2	2	2	11
-24/-25																					13
-26/-27																					6
-28/-29																					8
-30/-31																					1
-32/-33																					3
TOTAL	10	24.4	16.2	14.6	11.4	8.6	6.6	3.9	2.2	1.2	.4	.1	.0	.0				7438	7440 7438	7438	7438

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	29071441	439727	59.1	20.335	7438							
Dry Bulb	9399715	242163	32.5	14.283	7440	19.7	352.8	1.8				744
Wet Bulb	6369130	202556	27.2	10.710	7438	21.3	500.3					744
Dew Point	3073618	133828	18.0	9.461	7438	32.2	727.4					744

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	.8-77	APR
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0000-0200 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11	12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
62/ 61									.1										1	1		
60/ 59						.1													1	1		
58/ 57						.1	.1		.3										5	5		
56/ 55					.1	.4	.3		.3										11	11		
54/ 53						.6	.4		.3	.1									13	13		
52/ 51				.1	.3	.6	.8												16	16		
50/ 49				.2	.9	1.4	.4		.1										28	28	2	
48/ 47			.2	.3	1.3	.6	.8												29	29	3	
46/ 45		.1	.1	.4	1.8	1.8	.4												42	42	11	
44/ 43		.2	1.0	2.2	1.6	.4													49	49	19	1
42/ 41		.4	.4	2.7	2.3	.1													54	54	30	6
40/ 39		.7	2.4	3.0	2.8	.1													81	81	53	3
38/ 37	.1	.9	3.7	2.9	1.9	.2													87	87	66	14
36/ 35	.3	2.2	2.7	2.8	.9	.1													81	81	108	29
34/ 33	1.0	3.4	2.8	3.3	.3														98	98	119	25
32/ 31	1.1	4.4	2.2	1.0	.2														81	81	108	69
30/ 29	.7	1.7	1.8	1.0															46	46	117	115
28/ 27	.6	1.4	2.6	1.4															54	54	70	115
26/ 25	.7	2.2	1.8	.1															43	43	47	102
24/ 23	.6	1.2	.1																17	17	47	49
22/ 21	.2	1.0	.1																12	12	39	92
20/ 19	.2	.9	.2																12	12	17	68
18/ 17	.8	.8	.1																15	15	11	69
16/ 15	.4	.3																	7	7	15	44
14/ 13		.2																	2	2	3	27
12/ 11	.3																		3	3	3	19
10/ 9	.3																		3	3	3	30
8/ 7	.2																		2	2	2	8
6/ 5	.2	.1																	3	3	2	6
4/ 3	.1																		1	1	2	4
2/ 1																						1
0/ -1																						1
-6/ -7	.2																		2	2	2	
-8/ -9	.1																		1	1	1	1

Element (X)	Σx²		Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature					
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-10/-11																					1
-14/-15																					1
TOTAL	8.2	22.3	22.2	21.6	14.4	6.6	3.3	1.2	.1									·900	900	900	900

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4040670	58142	64.6	17.792	900							90
Dry Bulb	1223002	32090	35.7	9.363	900	.3	30.4					90
Wet Bulb	919195	28013	31.1	7.252	900	.3	48.9					90
Dew Point	563226	21472	23.9	7.528	900	.4	82.2					90

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 — STATION MALMSTROM AFB MT/GREAT FALLS — STATION NAME 68-77 — YEARS APR — MONTH

PAGE 1 0300-0500 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
60/ 59								.1										1	1		
58/ 57						.1												1	1		
56/ 55						.1	.1											2	2		
54/ 53						.3	.1	.1										5	5		
52/ 51					.2	.4	.4											10	10		
50/ 49				.1	.8	.7	.3											17	17		
48/ 47			.1	.8	.8	.9	.4											27	27	1	
46/ 45			.2	.3	2.0	.9	.3											41	41	3	
44/ 43		.1	.6	1.2	1.3	.7												35	35	10	
42/ 41	.1	.8	.6	2.0	1.8													47	47	27	2
40/ 39		.6	2.1	3.0	1.7	.3												69	69	40	5
38/ 37	.6	1.0	2.1	2.8	1.1													68	68	59	10
36/ 35	.3	2.9	3.2	4.2	.3													99	99	85	22
34/ 33	.1	3.4	5.2	3.3	.6													114	114	104	26
32/ 31	.8	5.7	2.6	1.6														95	95	117	54
30/ 29	1.9	2.2	2.0	.8	.2													64	64	167	96
28/ 27	.7	2.8	3.0	.6														63	63	63	127
26/ 25	.1	2.2	1.1															31	31	51	111
24/ 23	.4	2.4	.3															29	29	60	66
22/ 21	.1	1.0	.2															12	12	31	84
20/ 19	.9	1.2	.1															20	20	22	77
18/ 17	.7	.7	.1															13	13	16	64
16/ 15	.2	.6																7	7	12	45
14/ 13	.3	.9																11	11	10	26
12/ 11	.4	.2																6	6	8	30
10/ 9	.3																	3	3	4	28
8/ 7	.6																	5	5	5	10
6/ 5	.2																	2	2	2	9
4/ 3																					5
0/ -1	.1																	1	1	1	
-2/ -3	.1																	1	1	1	
-4/ -5																					1
-6/ -7																					1
-8/ -9	.1																	1	1	1	

Element (X)	Σx^2		Σx		$\bar{x}$		σ_x		No. Obs.	Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PAGE 2   0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-14/-15																					1
TOTAL	9.1	28.7	23.6	20.7	11.6	4.4	1.8	.2											900		900
																		900		900	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4340196	60626	67.4	16.885	900							90
Dry Bulb	1101524	30452	33.8	8.897	900	.3	36.4					90
Wet Bulb	851889	26945	29.9	7.090	900	.3	57.1					90
Dew Point	536916	20968	23.3	7.338	900	.3	83.5					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63								.1	.1									2	2		
62/ 61									.1									1	1		
60/ 59							.1	.1	.1									3	3		
58/ 57						.1	.2	.3										6	6		
56/ 55					.2	.2	.6	.2	.1									12	12		
54/ 53				.1		1.2	.4		.1									17	17		
52/ 51				.2	.7	.7	.3	.1										18	18		
50/ 49			.1	.1	.6	1.4	.4											24	24		2
48/ 47			.2	.9	1.3	1.2	.3											36	36		5
46/ 45			.8	.8	2.7	2.0	.8											63	63	12	
44/ 43		.3	1.0	1.2	2.6	.9	.1											55	55	33	
42/ 41		.7	1.8	1.6	1.8	1.0												61	61	40	3
40/ 39		1.1	2.7	2.2	2.9	.4												84	84	61	14
38/ 37	.3	1.7	2.2	1.6	1.3	.3												67	67	80	18
36/ 35	.4	1.7	4.1	2.6	.6													84	84	105	28
34/ 33		4.1	3.1	1.6	.7	.1												86	86	85	45
32/ 31	.4	3.3	2.3	1.2	.2													68	68	135	79
30/ 29	1.3	3.2	1.0	.4	.1													55	55	108	107
28/ 27	.7	1.4	1.4	.2														34	34	67	120
26/ 25	.2	2.6	.8															32	32	35	95
24/ 23	.8	2.0	.2															27	27	47	63
22/ 21	.3	.8	.1															11	11	23	85
20/ 19	.2	1.2	.2															15	15	14	67
18/ 17		.6																5	5	10	47
16/ 15	.4	.3																7	7	8	29
14/ 13	.4	.4																8	8	10	26
12/ 11	.4	.3																7	7	6	34
10/ 9	.2																	2	2	4	18
8/ 7	.4																	4	4	4	10
6/ 5																					4
4/ 3	.2																	2	2	2	2
2/ 1	.1																	1	1	1	1
0/ -1	.3																	3	3	3	1
-2/ -3																					3

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0600-0800
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-4/-5																					1
TOTAL	7.4	25.8	22.1	14.7	15.6	9.7	3.3	.9	.6										900		900
																		900		900	

Element (X)	Σ_{X^2}	Σ_X	$\overline{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4084488	58392	64.9	18.146	900							
Dry Bulb	1278224	32742	36.4	9.841	900	.3	28.1					90
Wet Bulb	959305	28591	31.8	7.534	900	.3	47.7					90
Dew Point	594224	22112	24.6	7.529	900	.5	79.2					90

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0900-1100
           HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
80/79																.1		1	1		
78/77												.1						1	1		
76/75												.1						1	1		
74/73										.1	.3	.1						5	5		
72/71											.1	.2						3	3		
70/69										.4	.2	.1						7	7		
68/67									.1	.7	.1							8	8		
66/65								.1	.1	.4	.2							8	8		
64/63								.2	.6	1.0		.2						18	18		
62/61							.1	.1	.9	1.4	.7	.3						32	32		
60/59						.1	.2	.3	.9	1.0	.6							28	28		
58/57							.3	1.4	1.1	1.1	.3							39	39		
56/55					.3	.4	2.0	1.8	.6	.2								48	48		
54/53				.2	.6	1.0	2.0	1.4	.3									50	50	3	
52/51			.1		.3	1.6	2.0	1.0	.1									46	46	8	
50/49			.1	.9	.6	1.7	2.9	.3										58	58	17	
48/47			.1	.7	.8	3.1	1.1	.4										56	56	51	
46/45		.1	.4	.4	2.2	1.8	2.6	.6										73	73	59	1
44/43		.2	.4	1.7	1.4	1.7	.9	.1										58	58	69	3
42/41		.4	.9	1.2	1.2	1.2	.6											50	50	83	4
40/39		.7	1.9	1.0	2.1	1.4												64	64	80	17
38/37	.3	.9	1.9	1.7	.8	.1												51	51	108	23
36/35		1.3	1.9	.4	.8													40	40	85	35
34/33		1.9	1.3	.7														35	35	88	54
32/31	.2	2.3	.4	.3														30	30	96	74
30/29		.4	1.1	.1														15	15	49	106
28/27	.2	1.9	.6	.1														25	25	28	124
26/25	.2	.9	.2															12	12	26	88
24/23	.2	.7																8	8	13	68
22/21	.3	.4	.2															9	9	12	81
20/19		.3																3	3	5	62
18/17		.3																3	3	3	42
16/15	.1	.1																2	2	4	44
14/13		.1																1	1	1	21

Element (X)	ΣX^2		ΣX		$\bar{X}$		σ_x	No. Obs.	Mean No. of Hours with Temperature						
									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)
JUL 64

USAFETAC

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
12/ 11	.3																	3	3	3	17
10/ 9	.1	.2																3	3	1	25
8/ 7	.4																	4	4	6	2
6/ 5	.2																	2	2	2	5
4/ 3																					4
TOTAL	2.8	13.3	11.7	9.4	11.2	14.7	15.9	8.9	5.3	3.2	1.8	1.0	.7			.1		900	900	900	900

Element (X)	Σx^2	Σx	$\overline{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2659434	45156	50.2	20.930	900							90
Dry Bulb	1956274	40574	45.1	11.891	900		12.0	2.6	.8			
Wet Bulb	1257674	32930	36.6	7.664	900		24.9					9
Dew Point	624465	22763	25.3	7.363	900		76.3					

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PAGE 1   1200-1400
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81															.2	.1	.1	4	4		
80/ 79														.2		.2		4	4		
78/ 77												.1		.1	.1			3	3		
76/ 75													.1	.6				6	6		
74/ 73											.1	.4	.6	.2				12	12		
72/ 71										.1	.3	1.1	.4	.1				19	19		
70/ 69									.1	.4	.9	.4	.6	.1				23	23		
68/ 67								.1	.2	.2	1.0	.4	.3					21	21		
66/ 65								.1	.6	1.2	1.0	.9						34	34		
64/ 63							.1	.2	1.0	1.3	1.1	.3	.1					38	38		
62/ 61						.1	.1	.3	.9	.7	.4	.2						25	25		
60/ 59							.6	1.3	1.8	1.3								45	45		
58/ 57						.6	.7	1.9	2.1	.7	.1							54	54		
56/ 55					.1	.4	.8	2.1	1.9	.1								49	49	1	
54/ 53					.1	.4	1.4	2.3	1.1	.1								50	50	10	
52/ 51				.3	.6	.2	2.1	2.4	.6									56	56	23	
50/ 49				.4		1.6	1.8	1.3	.3									49	49	49	
48/ 47			.2	.1	.4	.8	2.2	1.7	.2									51	51	56	
46/ 45			.3	.4	1.0	1.2	1.2	1.7										53	53	71	
44/ 43		.1	.3	.8	1.6	1.6	.1	.1										41	41	80	
42/ 41			1.1	1.0	1.1	1.0	.3											41	41	81	5
40/ 39		1.2	1.7	1.0	.9	.6	.1											49	50	95	8
38/ 37		.8	2.0	.8	.9													40	40	96	26
36/ 35		1.2	1.6	.4	.1													30	30	95	39
34/ 33		1.1	.7	.3														19	19	78	41
32/ 31	.3	.8	.3	.2														15	15	68	62
30/ 29		1.4	1.0	.3														25	25	26	91
28/ 27		.7	.3	.1														10	10	17	116
26/ 25	.1	1.1	.1															12	12	20	103
24/ 23	.2	.3																5	5	14	67
22/ 21		.1																1	1	3	82
20/ 19																				1	74
18/ 17		.3																3	3	2	61
16/ 15																				1	40

Element (X)	Σx²			Σx			x̄		σx		No. Obs.		Mean No. of Hours with Temperature								
													≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total		
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   APR
STATION   STATION NAME   YEARS   MONTH

PAGE 2   1200-1400
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
14/ 13	.1	.2																3	3	1	22
12/ 11	.3	.1																4	4	5	19
10/ 9	.3	.1																4	4	5	19
8/ 7	.1																	1	1	1	11
6/ 5																					9
4/ 3																					4
TOTAL	1.6	9.7	9.7	6.3	6.8	8.5	11.6	15.7	10.8	6.2	5.0	4.0	2.1	1.3	.3	.3	.1	899	900	899	899

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	2033573	37953	42.2	21.916	899							
Dry Bulb	2394217	44893	49.9	13.127	900		8.3	9.2	2.9	.6		90
Wet Bulb	1395344	34752	38.7	7.607	899		16.4					90
Dew Point	588444	22026	24.5	7.371	899		78.1					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
84/ 83																	.1	1	1		
82/ 81												.1			.2	.2	.1	6	6		
80/ 79												.1			.2	.4		7	7		
78/ 77											.1	.1		.3	.1			6	6		
76/ 75													.3	.4	.2			9	9		
74/ 73										.1	.1	.4	.3	.6				14	14		
72/ 71									.1	.1	.1	1.7	1.2	.3				32	32		
70/ 69								.1	.1	.6	.2	1.1	.6	.4				28	28		
68/ 67									.1	.4	.9	.3	.7					22	22		
66/ 65							.1		.1	1.4	1.0	.4	.3					31	31		
64/ 63									.8	1.1	1.0		.3					29	29		
62/ 61							.1	.6	1.3	1.2	.7							35	35		
60/ 59							.6	.9	2.8	1.7	.1							54	54		
58/ 57						.1	.3	1.4	1.4	.7								36	36	1	
56/ 55				.2		.3	.7	2.2	2.4	.4								57	57	6	
54/ 53						.2	1.3	2.3	1.9	.4								56	56	9	
52/ 51				.2	.3	1.0	1.7	2.3	.8									57	57	27	
50/ 49				.1	.2	.6	1.6	1.8	.1	.1								40	40	45	
48/ 47			.1	.7	.8	1.3	.9	.8	.8									48	48	69	
46/ 45			.2	.8	.6	1.0	2.0	.6	.1									47	47	63	
44/ 43		.6	.6	1.3	.9	.7	.7	.2										44	44	74	4
42/ 41		.2	.9	1.6	1.2	.8	.4											46	46	101	
40/ 39		.1	1.3	2.2	.7	.7												45	45	97	10
38/ 37		1.1	2.0	.4	.3													35	35	107	12
36/ 35		.8	1.3	.3														22	22	84	36
34/ 33	.3	.8	.3	.4														17	17	75	41
32/ 31	.1	.4	.2	.3														10	10	52	50
30/ 29	.4	.7	.6	.3														18	18	24	104
28/ 27		1.6	1.0															23	23	15	123
26/ 25	.3	.3	.1															7	7	22	95
24/ 23		.1																1	1	12	70
22/ 21		.2																2	2	2	82
20/ 19		.1																1	1		80
18/ 17		.2																2	2	1	55

Element (X)	Σx²			Σx			x̄		σₓ		No. Obs.		Mean No. of Hours with Temperature							
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb																				
Wet Bulb																				
Dew Point																				

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
16/ 15	.2	.1																3	3	4	42
14/ 13	.1	.4																5	5	2	22
12/ 11		.3																3	3	6	29
10/ 9		.1																1	1	2	12
8/ 7																					14
6/ 5																					10
4/ 3																					7
2/ 1																				1	1
0/ -1																					1
TOTAL	1.6	8.2	8.7	8.8	5.2	6.7	10.3	13.2	12.9	8.3	4.1	4.1	4.1	2.1	.8	.7	.2		900		900
																		900		900	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1900860	36202	40.2	22.240	900							90
Dry Bulb	2516899	46029	51.1	13.458	900		7.6	12.5	4.3	.9		90
Wet Bulb	1428950	35218	39.1	7.519	900		14.2					90
Dew Point	570797	21643	24.0	7.482	900	.1	79.7					90

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31				
78/ 77														.2	.1			3	3		
76/ 75												.1	.2	.2				5	5		
74/ 73											.1	.1	.1					3	3		
72/ 71									.1	.1		.1	.3					6	6		
70/ 69										.1	.2	.7						9	9		
68/ 67									.3	.2	1.0	.2	.2					18	18		
66/ 65							.1			.8	.2	.2						12	12		
64/ 63						.1	.1	.1	.6	1.0	.6	.4						26	26		
62/ 61							.2	.1	.6	1.0	.3	.1						21	21		
60/ 59						.1	.6	.7	1.0	.6								26	26		
58/ 57					.1	.1	.8	1.7	1.2	.3	.1							39	39		
56/ 55						.7	1.2	1.3	1.4	.1								43	43	3	
54/ 53					.8	.4	1.6	1.8	.7	.1								48	48	3	
52/ 51			.2	.2	.3	1.6	2.7	1.1	.3									58	58	13	
50/ 49			.2	.1	.4	1.3	1.7	1.3		.1								47	47	18	
48/ 47			.2	.2	1.1	1.2	2.1	.6	.1									50	50	41	
46/ 45			.3	1.8	2.2	2.2	2.6	.3	.2									87	87	52	1
44/ 43		.1	.6	1.0	.9	2.3	.4	.1										49	49	68	5
42/ 41		.4	1.2	1.6	1.4	1.0	.6	.1										57	57	83	8
40/ 39		.7	1.7	1.1	1.7	1.1	.2											58	58	87	8
38/ 37		1.1	2.8	.8	.8	.7												55	55	109	23
36/ 35	.1	1.8	2.0	.4	.2	.3												44	44	104	29
34/ 33	.1	1.4	1.7	.3	.2	.1												35	35	104	42
32/ 31	.3	.7	.8	.4	.1													21	21	75	74
30/ 29	.3	.9	.4		.1													16	16	41	97
28/ 27		1.7	.3	.2														20	20	30	122
26/ 25	.7	.9	.4															18	18	25	95
24/ 23		.6	.2															7	7	14	69
22/ 21		.3																3	3	11	70
20/ 19		.1																1	1	4	62
18/ 17		.1																1	1		57
16/ 15	.4	.1																5	5	5	43
14/ 13		.6																5	5	1	20
12/ 11		.1																1	1	5	21

Element (X)	Σx²			Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	APR
STATION	STATION NAME	YEARS	MONTH

PAGE 2   1800-2000 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
10/ 9		.1																1	1	2	20
8/ 7																					12
6/ 5																					11
4/ 3																					6
2/ 1	.1																	1	1	1	4
0/ -1	.1																	1	1	1	
-2/ -3																					1
TOTAL	2.2	11.7	13.1	8.2	10.4	13.3	14.8	9.2	6.6	4.4	2.6	2.0	.9	.4	.1				900		900
																		900	900		

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature							
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2490642	43028	47.8	21.960	900							
Dry Bulb	2030489	41377	46.0	11.942	900	.1	10.1	4.4	1.1			90
Wet Bulb	1269489	33135	36.8	7.425	900	.1	21.5					90
Dew Point	596204	22042	24.5	7.919	900	.1	78.4					90

PSYCHROMETRIC SUMMARY

24112 STATION MALMSTROM AFB MT/GREAT FALLS STATION NAME 68-77 YEARS APR MONTH

PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
66/65								.1	.1	.1	.1							4	4		
64/63										.1								1	1		
62/61							.2	.2	.2	.1								7	7		
60/59						.1	.3	.2	.3	.1								10	10		
58/57						.2	.7	.6	.4	.1								18	18		
56/55						.2	.4	.4	.1									11	11		
54/53						.9	1.4	.6	.2									28	28	1	
52/51				.1	.4	1.7	1.3	.8	.1									40	40	1	
50/49			.3	.1	.4	2.0	.9	.1										35	35	7	
48/47		.1	.3	.4	.7	2.0	1.2											43	43	9	
46/45		.3	.4	.9	3.1	1.6	.3	.1										61	61	18	
44/43		.3	.2	1.7	2.3	2.3	.1											63	63	38	4
42/41		.7	.8	2.2	2.2	1.1	.1											64	64	60	9
40/39		1.0	3.2	2.1	2.9	.9												91	92	65	13
38/37	.1	1.3	2.4	1.6	1.7	.3												67	67	94	9
36/35	.2	2.8	2.4	1.9	.9	.1												75	75	112	31
34/33	.4	3.4	2.0	1.8	.6	.3												77	77	114	35
32/31	.4	2.7	1.8	1.2	.1													56	56	113	92
30/29	.6	1.3	1.1	.9	.3													38	38	84	106
28/27	.1	1.7	.9	1.0														33	33	52	116
26/25	1.1	1.3	.1	.2														25	25	51	94
24/23		.9	.3	.1														12	12	20	63
22/21		1.1	.4															14	14	18	76
20/19		.9																8	8	17	65
18/17		.3																3	3	9	67
16/15	.3																	3	3	4	34
14/13		.2																2	2	1	16
12/11	.2	.2																4	4	5	17
10/9																					32
8/7		.1																1	1		8
6/5	.1																	1	1	2	3
4/3	.1																	1	1	1	4
2/1																					2
-4/-5	.1																	1	1	1	

Element (X)	Σx²		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 2   2100-2300
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-6/-7	.1	.1																2	2	2	
-12/-13																					1
-14/-15																					1
-20/-21																					1
TOTAL	4.0	20.9	16.9	16.2	15.7	13.8	7.1	3.1	1.6	.6	.1							899	900 899	899	899

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3499551	53235	59.2	19.663	899							
Dry Bulb	1467507	35225	39.1	9.941	900	.3	20.4					90
Wet Bulb	1044285	29945	33.3	7.222	899	.3	38.0					90
Dew Point	598800	22120	24.6	7.793	899	.3	79.9					90

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		APR
STATION	STATION NAME	YEARS		MONTH

PAGE 1   ALL   HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
84/ 83																	.0	1	1		
82/ 81													.0		.1	.0	.0	10	10		
80/ 79													.0	.0	.0	.1		12	12		
78/ 77												.0	.0	.1	.0			13	13		
76/ 75												.0	.1	.2	.0			21	21		
74/ 73										.0	.1	.2	.1	.1				34	34		
72/ 71									.0	.0	.1	.4	.3	.1				60	60		
70/ 69								.0	.0	.1	.2	.3	.2	.1				67	67		
68/ 67									.0	.1	.1	.4	.1	.2				69	69		
66/ 65								.0	.0	.1	.5	.3	.0					89	89		
64/ 63							.0	.0	.1	.4	.6	.3	.1	.1				114	114		
62/ 61							.0	.1	.3	.6	.5	.2	.0					122	122		
60/ 59						.0	.1	.3	.5	.9	.5	.0						168	168		
58/ 57						.0	.2	.5	.9	.8	.3	.0						198	198	1	
56/ 55					.1	.4	.8	1.1	.8	.1								233	233	10	
54/ 53				.0	.2	.6	1.1	1.1	.6	.1								267	267	26	
52/ 51			.0	.2	.4	1.0	1.4	1.0	.2									301	301	72	
50/ 49			.1	.3	.5	1.3	1.3	.6	.1	.0								298	298	140	
48/ 47		.0	.2	.5	.9	1.4	1.1	.4	.1									340	340	235	
46/ 45		.1	.4	.7	2.0	1.6	1.3	.4	.0									467	467	289	2
44/ 43		.3	.6	1.4	1.6	1.3	.3	.1										394	394	391	17
42/ 41	.0	.5	1.0	1.7	1.6	.8	.3	.0										420	420	505	37
40/ 39		.8	2.1	2.0	1.9	.7	.0											541	543	578	78
38/ 37	.2	1.1	2.4	1.6	1.1	.2												470	470	719	135
36/ 35	.2	1.8	2.4	1.6	.5	.1												475	475	778	249
34/ 33	.3	2.5	2.1	1.5	.3	.1												481	481	767	309
32/ 31	.5	2.5	1.3	.8	.1													376	376	764	554
30/ 29	.7	1.5	1.1	.5	.1													277	277	616	822
28/ 27	.3	1.6	1.3	.5														262	262	342	963
26/ 25	.4	1.4	.6	.0														180	180	277	783
24/ 23	.3	1.0	.2	.0														106	106	227	515
22/ 21	.1	.6	.1															64	64	139	652
20/ 19	.2	.6	.1															60	60	80	555
18/ 17	.2	.4	.0															45	45	52	462

Element (X)	Σx²		Σx		x̄		σₓ		No. Obs.	Mean No. of Hours with Temperature						
										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26-5 (OL A) JUL 64

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 APR
STATION   STATION NAME   YEARS   MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
16/ 15	.3	.2																34	34	53	321
14/ 13	.1	.4																37	37	29	180
12/ 11	.3	.2																31	31	41	186
10/ 9	.2	.1																17	17	21	184
8/ 7	.2	.0																17	17	18	75
6/ 5	.1	.0																8	8	8	57
4/ 3	.1																	4	4	5	36
2/ 1	.0																	2	2	2	9
0/ -1	.1																	5	5	5	3
-2/ -3	.0																	1	1	1	4
-4/ -5	.0																	1	1	1	2
-6/ -7	.0	.0																4	4	4	1
-8/ -9	.0																	2	2	2	1
-10/-11																					1
-12/-13																					1
-14/-15																					3
-20/-21																					1
TOTAL	4.6	17.6	16.0	13.2	11.4	9.7	8.5	6.6	4.7	2.8	1.7	1.4	1.0	.5	.2	.1	.0		7200		7198
																	7198		7198	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	25049414	392734	54.6	22.431	7198							720
Dry Bulb	13968136	303382	42.1	12.828	7200	1.3	153.3	28.7	9.1	1.5		720
Wet Bulb	9126131	249529	34.7	8.131	7198	1.3	268.7					720
Dew Point	4673076	175146	24.3	7.560	7198	1.7	637.3					720

24112 STATION	MALMSTROM AFB MT/GREAT FALLS (STATION NAME)	68-77	YEARS	MAY MONTH

PAGE 1   0000-0200 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
66/ 65							.1											1	1		
64/ 63							.1	.4										5	5		
62/ 61					.1	.5	.1	.1	.1									9	9		
60/ 59					.3	.5	.3	.9	.1									20	20		
58/ 57		.1		.5	.1	.6	.3	1.2										27	27		
56/ 55		.2		.9	1.2	1.1	.6	.4										41	41	1	
54/ 53		.1	.1	.4	.4	1.3	1.0	.1										32	32	4	1
52/ 51		.3	.6	1.6	1.4	1.9	.5											60	60	17	2
50/ 49		1.1	2.0	1.6	1.7	1.4	.3											76	76	30	2
48/ 47		1.4	3.8	2.6	1.4	1.0												94	95	43	9
46/ 45	.1	2.8	2.9	2.3	3.8	.9												118	118	89	39
44/ 43	.1	1.6	3.0	2.0	1.6	.6												84	84	115	39
42/ 41	.3	2.3	2.7	1.4	1.0	.3												74	74	118	59
40/ 39		2.7	2.6	2.3	1.6													85	85	99	72
38/ 37	.4	2.5	2.3	1.9	.3													69	69	114	77
36/ 35	.9	3.0	1.5	.8	.4													61	61	100	99
34/ 33	.5	1.3	1.3	.3														32	32	77	105
32/ 31	.1	1.0	.9	.3														21	21	64	69
30/ 29	.2	.4	.3	.4														13	13	28	100
28/ 27		.2	.3															5	5	17	91
26/ 25			.2															2	2	8	45
24/ 23																				3	37
22/ 21																			2	2	37
20/ 19																					22
18/ 17																					8
16/ 15																					9
14/ 13																					3
12/ 11																					3
10/ 9																					1
TOTAL	2.7	21.0	24.5	19.4	15.4	10.2	3.4	3.1	.2									929	930	929	929

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4277884	61006	65.7	17.111	929							93
Dry Bulb	1904932	41526	44.7	7.390	930		4.1					93
Wet Bulb	1474561	36611	39.4	5.850	929		12.2					93
Dew Point	1057835	30603	32.9	7.319	929		42.5					93

Mean No. of Hours with Temperature

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 MAY
STATION STATION NAME YEARS MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
64/ 63								.1	.2									3	3		
62/ 61								.3										3	3		
60/ 59						.1		.1										2	2		
58/ 57					.5	.4	.4	.6										19	19		
56/ 55		.1	.2	.3	.1	.6	.3	.1										17	17		
54/ 53		.2	.5	.4	1.4	.4	.3											31	31	3	
52/ 51			.8	1.0	.8	1.5	.1											38	38	4	3
50/ 49		.2	1.7	1.3	1.2	1.0	.2											52	52	15	2
48/ 47		1.4	2.8	2.6	1.7	1.1	.1											90	90	29	2
46/ 45	.1	3.3	3.3	2.4	3.8	.3												123	123	73	19
44/ 43	.1	2.7	3.3	2.2	1.5	.1												92	92	92	48
42/ 41	.2	2.4	3.0	2.0	1.1													81	81	113	46
40/ 39	.4	3.3	3.0	3.2	.9													101	101	106	63
38/ 37	.6	2.5	2.3	1.8	.1													68	68	129	74
36/ 35	.4	4.6	2.2	2.8														93	93	98	107
34/ 33	.5	2.8	1.9	.8	.1													57	57	94	96
32/ 31	.1	1.8	1.1	.8														35	35	84	93
30/ 29	.1	.2	.6	.1														10	10	47	92
28/ 27	.2	.1	.5	.3														11	11	25	101
26/ 25		.2	.1															3	3	9	60
24/ 23		.1																1	1	6	44
22/ 21																				3	35
20/ 19																					12
18/ 17																					18
16/ 15																					7
14/ 13																					3
12/ 11																					2
8/ 7																					3
TOTAL	2.9	26.0	27.4	21.9	13.1	5.6	1.5	1.3	.2									930	930	930	930

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4641744	63986	68.8	16.052	930							93
Dry Bulb	1722607	39511	42.5	6.881	930		6.0					93
Wet Bulb	1373025	35339	38.0	5.700	930		17.4					93
Dew Point	1013982	29988	32.2	7.114	930		47.0					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0600-0800   HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
74/ 73									.1									1	1		
70/ 69									.2		.1							3	3		
68/ 67							.1	.1	.2	.2								6	6		
66/ 65						.1	.1	.3	.3	.1								9	9		
64/ 63					.1	.4	.5	.5	.3									18	18		
62/ 61					.4	.2	.4	.6	.1	.1								18	18		
60/ 59					.6	.4	1.0	.6	.1									26	26		
58/ 57				.3	.9	.9	1.0	.8										36	36	1	
56/ 55			.2	.6	1.6	1.6	1.4	.2										53	53	6	
54/ 53			.5	1.2	1.7	2.0	1.9											69	69	13	
52/ 51			1.2	2.2	1.3	2.0	.5											67	67	26	
50/ 49		.3	1.7	1.8	2.3	.9	.4											69	69	49	5
48/ 47		2.0	3.3	2.2	1.6	1.9												103	103	73	11
46/ 45		2.4	3.0	3.0	2.7	2.0	.1											123	123	119	33
44/ 43		1.9	2.5	1.8	2.0	.1												78	78	118	64
42/ 41		2.8	1.4	1.0	.8	.2												57	57	124	59
40/ 39	.2	2.4	2.2	2.2	.9													72	72	101	102
38/ 37	.2	2.0	1.0	.9	.2													40	40	93	97
36/ 35	.2	2.6	1.2	.8	.3													47	47	87	101
34/ 33		1.5	.6	.3														23	23	54	91
32/ 31		.3	.1	.1														5	5	41	82
30/ 29		.2		.1														3	3	16	84
28/ 27		.1	.1	.1														3	3	3	78
26/ 25				.1														1	1	3	58
24/ 23																				1	26
22/ 21																				2	16
20/ 19																					11
18/ 17																					4
16/ 15																					4
14/ 13																					2
10/ 9																					1
8/ 7																					1
TOTAL	.6	18.6	19.1	18.6	17.4	12.9	7.5	3.2	1.4	.4	.1							930	930	930	930

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3935507	58333	62.7	17.257	930							
Dry Bulb	2142623	44033	47.3	7.886	930		1.2	1.0	.1			93
Wet Bulb	1613981	38371	41.3	5.760	930		6.6					93
Dew P	1133601	31847	34.2	6.806	930		36.7					93

USAFETAC   FORM 0-26-5 (OLA) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME		YEARS	MONTH

PAGE 1   0900-1100
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81												.2	.1		.1			4	4		
80/ 79											.1			.1		.1		3	3		
78/ 77													.1	.1	.1			3	3		
76/ 75										.5		.2	.3	.1				11	11		
74/ 73									.2	.2	.3	.5	.3					15	15		
72/ 71								.3	.5	.3	.9	.1	.1					21	21		
70/ 69								.3	.6	1.8	.4	.2						32	32		
68/ 67								1.1	1.5	.9	.1	.1						34	34		
66/ 65						.2	.9	1.9	1.0	.5	.2							44	44		
64/ 63					.1	.8	1.4	1.3	2.5	1.0	.1							66	66		
62/ 61					.2	.8	2.0	1.5	1.1	.5								57	57		
60/ 59					.8	1.2	1.0	2.8	1.8	.2								72	72		4
58/ 57			.1	.2	.5	1.9	1.9	2.0	.3									66	66	14	
56/ 55			.1	.9	.9	1.5	2.5	1.3	.5									71	71	23	
54/ 53			.3	.6	1.7	1.7	1.5	1.0	.3									67	67	57	
52/ 51		.3	.8	1.1	1.5	1.6	1.5	.6										69	69	93	1
50/ 49		.1	1.7	.8	.6	1.1	1.4	.9										61	61	95	4
48/ 47		1.0	2.0	1.2	.8	1.5	1.0	.1										70	70	93	17
46/ 45	.1	1.1	1.2	1.3	1.3	.9	.3											57	57	133	38
44/ 43		.9	1.3	.9	.6	.3												37	37	116	68
42/ 41	.1	.9	.8	.4														20	20	93	70
40/ 39	.1	1.2	.4	.3														19	19	84	98
38/ 37		1.1	.6															16	16	66	80
36/ 35		.5	.1	.1	.1													8	8	33	112
34/ 33		.4																4	4	19	81
32/ 31	.1	.1		.1														3	3	4	75
30/ 29																				2	83
28/ 27																					62
26/ 25																				1	47
24/ 23																					35
22/ 21																					27
20/ 19																					14
18/ 17																					12
16/ 15																					6

Element (X)	Σx^2		Σ$_x$		$\bar{x}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	.4	7.5	9.5	7.8	9.1	13.4	15.4	15.2	10.4	6.0	2.2	1.4	1.0	.3	.2	.1		930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	>93 F	Total
Rel. Hum.	2486292	44692	48.1	19.091	930							
Dry Bulb	2961594	51730	55.6	9.519	930		.3	12.3	3.6	.4		93
Wet Bulb	1929508	42024	45.2	5.736	930		.7					93
Dew Point	1141366	31890	34.3	7.177	930		36.1					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — MAY MONTH

PAGE 1   1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31				
92/91																.2		2	2		
88/87															.1			1	1		
86/85																	.1	1	1		
84/83														.2	.2		.1	5	5		
82/81												.4	.5	.3	.1		.1	14	14		
80/79											.1	.3	.6	.6	.2	.4		22	22		
78/77										.2	.3	.2	1.1	.1		.1		19	19		
76/75											.4	.2	1.8	.5	.2			30	30		
74/73											.3	.8	1.3	.6				28	28		
72/71							.1			.9	.6	2.2	.6	.1				42	42		
70/69								.4	1.0	2.5	.8	1.6						58	58		
68/67								.9	1.0	1.5	1.5	.5						50	50		
66/65						.1	.9	1.0	1.4	1.6	1.2	.1						58	58		
64/63				.3		.2	1.6	1.2	2.3	1.5	.4	.1						71	71		
62/61				.2		.4	1.3	1.5	2.7	1.3	.3							72	72	6	
60/59			.1	.4		.4	1.2	.9	2.3	.6								55	55	8	
58/57				.5	1.1	.9	1.0	1.7	1.5	.4								66	66	14	
56/55			.1	.3	1.1	.8	1.3	1.2	1.3	.2								58	58	44	
54/53			.6	.8	.9	.8	.8	1.1	.6									51	51	89	1
52/51	.1		1.0	1.3	.8	.5	.6	.4	.3									47	47	113	3
50/49	.1	.1	.8	1.0	.6	.4	.1	.2	.1									32	32	104	6
48/47		.3	1.1	1.1	.5	1.2	.1	.1										41	41	145	5
46/45		.6	.6	1.4	1.1	.2	.2											39	39	96	49
44/43		.9	1.1	.4	.2	.1												25	25	95	50
42/41		.9	.1	.5														14	14	75	79
40/39		1.0	.2		.1													12	12	70	72
38/37	.1	.5	.1															7	7	38	73
36/35	.1	.3	.2															6	6	19	118
34/33		.3																3	3	9	65
32/31																				4	82
30/29																					79
28/27																					86
26/25																					46
24/23																					37

Element (X)	Σx^2		Σx		$\bar{x}$		σ_x		No. Obs.	Mean No. of Hours with Temperature						
										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

24112 | MALMSTROM AFB MT/GREAT FALLS | 68-77 | MAY
STATION | STATION NAME | YEARS | MONTH

PAGE 2 | 1200-1400
HOURS (L. S. T.)

Temp. (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
22/ 21																					33
20/ 19																					18
18/ 17																					13
16/ 15																					9
14/ 13																					4
12/ 11																					1
TOTAL	.4	5.0	5.9	7.4	7.3	6.0	9.1	10.5	15.3	11.3	7.8	7.1	3.6	1.5	.6	.8	.3	929	929	929	929

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1914221	27895	40.8	19.925	929							
Dry Bulb	3487908	56056	60.3	10.661	929			27.2	12.2	2.8		93
Wet Bulb	2075885	43601	46.9	5.643	929		.4					93
Dew Point	1098476	31172	33.6	7.523	929		40.8					93

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	YEARS	MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
92/ 91																	.3	3	3		
86/ 85																	.3	3	3		
84/ 83													.3	.3	.2	.2	.8	17	17		
82/ 81												.2	.8		.5	.1		15	15		
80/ 79											.1	.5	.9	.4	.6			24	24		
78/ 77											.3	.4	1.0	.5	.2			23	23		
76/ 75											.8	1.1	.9	.5				30	30		
74/ 73									.1	.1	1.1	1.2	.9	.3				34	34		
72/ 71									.2	.3	1.7	1.3	.9					41	41		
70/ 69								.4	1.2	1.0	1.2	2.4	.5					62	62		
68/ 67							.2	.9	1.6	1.3	1.3	1.0	.1					59	59		
66/ 65							.5	1.1	1.0	1.5	.4	1.1	.2					54	54		
64/ 63					.1	.2	1.4	1.8	2.4	.9	.6	.3						72	72		
62/ 61						1.0	.8	1.5	1.3	1.2	.5							58	58		
60/ 59				.2	.5	.5	1.1	1.4	2.3	.1	.1							58	58	12	
58/ 57			.1	.3	1.7	.6	.8	1.9	1.6	1.2	.1							78	78	23	
56/ 55		.1	.3	.9	.8	.6	1.4	.6	1.1	.3								57	57	37	
54/ 53		.1	.8	.6	.3	.3	.2	.1	1.0									32	32	93	
52/ 51		.1	.8	.9	.5	.5	.5	.3	.3									37	37	119	4
50/ 49	.1	.2	.4	.9	.9	1.4	.3	.3										42	42	141	6
48/ 47		.4	1.4	.5	.3	.2	.3	.1										31	31	119	15
46/ 45		1.1	.6	1.3	.6	.4												38	38	73	30
44/ 43		1.3	.8	.2	.1													22	22	116	63
42/ 41		1.1		.1														11	11	78	80
40/ 39	.3	.4	.8	.1														15	15	61	75
38/ 37	.2	.6																8	8	29	66
36/ 35		.6																6	6	23	89
34/ 33																				6	94
32/ 31																					61
30/ 29																					75
28/ 27																					77
26/ 25																					59
24/ 23																					35
22/ 21																					32

Element (X)	ΣX²		ΣX		X̄		σₓ		No. Obs.	Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
20/ 19																					26
18/ 17																					22
16/ 15																					9
14/ 13																					10
12/ 11																					2
TOTAL	.6	6.1	5.9	6.0	5.9	5.9	7.5	10.5	14.0	7.8	8.3	9.5	6.3	2.2	1.6	.3	1.4		930		930
																		·930		930	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1900104	36984	39.8	21.498	930							
Dry Bulb	3610392	57036	61.3	11.001	930			31.1	14.9	4.4		93
Wet Bulb	2101168	43910	47.2	5.486	930							93
Dew Point	1083491	30853	33.2	8.032	930		40.8					93

USAFETAC FORM 0-26-3 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS (STATION NAME) — 68-77 YEARS — MAY MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/83													.1					1	1		
82/81												.1	.4	.1	.1	.2		9	9		
80/79											.1			.1	.5			7	7		
78/77											.2		.2					4	4		
76/75										.2	.5	.4	.5	.6				22	22		
74/73									.3	.5	.3	.5	.6	.1				23	23		
72/71								.1	.3	.6	.8	.4	.3					24	24		
70/69						.1			.6	1.3	1.1	.4	.3	.1				37	37		
68/67							.3	.3	1.1	1.1	.9	.3	.1					38	38		
66/65					.1	.2	.5	1.2	1.4	1.6	.6	.1						54	54		
64/63					.1	.1	1.3	1.0	2.4	1.2	.5	.1	.1					63	63		
62/61						1.0	1.5	1.3	1.1	1.0	.5	.1						60	60		
60/59				.3	.6	1.5	1.2	2.0	1.4	.2	.3							71	71	7	
58/57			.5	.2	1.0	1.6	1.4	1.3	1.4	.3	.1							73	73	14	
56/55			.6	1.1	1.3	1.2	1.9	.5	1.1	.2								74	74	22	
54/53		.2	1.1	.8	1.0	1.3	.8	1.2	.6	.1								65	65	52	
52/51		.2	1.2	1.3	.9	1.1	1.0	1.0	.2	.1								64	64	98	8
50/49		.6	1.3	1.3	.3	1.0	.6	.4	.1									53	53	124	10
48/47		.5	1.4	1.0	.3	.2	.5	.1										38	38	137	26
46/45		1.0	1.0	1.4	.9	.5	.3											47	47	107	33
44/43		1.2	1.2	1.1	.1	.1	.3											37	37	98	72
42/41		1.3	.8	.1	.2	.1												23	23	86	69
40/39		1.8	.3															20	20	72	79
38/37	.4	.4	.3	.3														14	14	68	91
36/35	.1	.6																7	7	28	78
34/33		.2																2	2	9	83
32/31																				8	82
30/29																					58
28/27																					68
26/25																					43
24/23																					26
22/21																					33
20/19																					21
18/17																					22

Element (X)	Σx²			Σx			x̄		σx		No. Obs.						

Mean No. of Hours with Temperature

	≤0 F	≤32 F	≥67 F	>73 F	≥80 F	>73 F	Total
Rel. Hum.							
Dry Bulb							
Wet Bulb							
Dew Point							

PSYCHROMETRIC SUMMARY

24112	MALMSTRUM AFB MT/GREAT FALLS	08-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31				
16/ 15																					14
14/ 13																					7
12/ 11																					5
10/ 9																					2
TOTAL	.5	8.2	9.7	8.8	6.8	9.9	11.8	10.4	12.0	8.3	6.0	2.6	2.8	1.1	.6	.2		930	930	930	930

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2425504	43000	46.2	21.697	930							93
Dry Bulb	3133154	53182	57.2	9.948	930			16.5	6.6	1.2		93
Wet Bulb	1976151	42553	45.8	5.597	930		.8					93
Dew Point	1130810	31484	33.9	8.362	930		38.1					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 1 **2100-2300**
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
84/ 83														.1	.1			2	2		
82/ 81														.1				1	1		
72/ 71												.1						1	1		
70/ 69									.2	.2	.1							5	5		
68/ 67						.2			.1		.1	.1						5	5		
66/ 65					.1	.1	.3	.6	.1	.1	.2							15	15		
64/ 63					.1	.5	.4	.1	.3	.8	.1							22	22		
62/ 61					.1	1.2	.5	.5	.6	.1								29	29		
60/ 59				.2	.2	.4	.4	.9	.6									26	26	1	
58/ 57			.1	.2	.5	1.7	.8	1.5	.2									47	47	3	
56/ 55			.5	.6	1.5	1.3	1.0	1.5	.2									62	62	8	
54/ 53		.1	.6	.6	1.2	2.8	1.6	.9	.1									74	74	16	1
52/ 51		.8	1.5	2.2	1.1	1.9	.6	.6										81	81	34	2
50/ 49		.6	2.0	2.4	1.5	1.7	.5	.4	.1									87	87	42	8
48/ 47		1.2	2.6	2.7	1.3	1.0	.8	.1										89	89	79	19
46/ 45		3.2	2.2	2.0	2.8	1.3	.6	.1										114	114	120	34
44/ 43		1.5	2.8	.9	1.2	1.5												73	73	144	55
42/ 41	.1	1.9	2.3	.8	.6													53	53	121	75
40/ 39		2.9	1.9	1.2	.4	.3												63	63	100	101
38/ 37	.2	1.9	.9	1.1	.4													42	42	98	67
36/ 35	.4	1.3	.3	.5	.1													25	25	75	116
34/ 33	.3	.4		.2														9	9	53	79
32/ 31		.2	.1		.1													4	4	22	64
30/ 29	.1																	1	1	10	83
28/ 27																				3	72
26/ 25																					42
24/ 23																				1	32
22/ 21																					24
20/ 19																					24
18/ 17																					16
16/ 15																					9
14/ 13																					2
12/ 11																					3
10/ 9																					2

Element (X)	$\Sigma_X{}^2$		Σ_X		$\bar{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM JUL 64 0-26-5 (OL A)

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 2   2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	1.2	16.1	17.8	15.6	13.3	15.8	7.8	7.3	2.7	1.2	.5	.2		.2	.1				930		930
																		930		930	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3652579	55349	59.5	19.644	930							
Dry Bulb	2284497	45501	48.9	7.923	930		.5	1.4	.3	.3		93
Wet Bulb	1666424	39030	42.0	5.531	930		3.6					93
Dew Point	1124428	31534	33.9	7.708	930		37.3					93

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME		YEARS	MONTH
			PAGE 1	ALL
				HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
92/ 91																.0	.0	5	5		
88/ 87															.0			1	1		
86/ 85																	.1	4	4		
84/ 83													.1	.1	.1	.0	.1	25	25		
82/ 81												.1	.2	.1	.1	.0	.0	43	43		
80/ 79											.1	.1	.2	.2	.2	.1		56	56		
78/ 77										.0	.1	.1	.3	.1	.0	.0		49	49		
76/ 75											.1	.2	.4	.3	.2			93	93		
74/ 73									.1	.1	.3	.4	.3	.1				101	101		
72/ 71							.0	.1	.2	.2	.7	.3	.2					129	129		
70/ 69							.0	.1	.5	.8	.5	.6	.1	.0				197	197		
68/ 67							.1	.4	.7	.6	.5	.3	.0					192	192		
66/ 65					.0	.1	.4	.8	.6	.7	.3	.2	.0					235	235		
64/ 63					.1	.3	.8	.8	1.3	.7	.2	.1	.0					320	320		
62/ 61					.1	.6	.8	.9	.9	.5	.2	.0						306	306	6	
60/ 59				.1	.4	.6	.8	1.2	1.1	.1	.1							330	330	32	
58/ 57		.0	.1	.3	.8	1.1	.9	1.4	.6	.2	.0							412	412	65	
56/ 55		.1	.3	.7	1.0	1.1	1.3	.7	.5	.1								433	433	141	
54/ 53		.1	.6	.7	1.1	1.3	1.0	.5	.3	.0								421	421	327	3
52/ 51	.0	.2	1.0	1.4	1.0	1.4	.7	.4	.1	.0								463	463	504	23
50/ 49	.0	.4	1.5	1.4	1.1	1.1	.5	.3	.0									472	472	600	43
48/ 47		1.0	2.3	1.7	1.0	1.0	.3	.1										556	557	718	104
46/ 45	.0	1.9	1.9	1.9	2.1	.8	.2	.0										659	659	810	275
44/ 43	.0	1.5	2.0	1.2	.9	.4	.0											448	448	894	459
42/ 41	.1	1.7	1.4	.8	.5	.1												333	333	808	537
40/ 39	.1	2.0	1.4	1.2	.5	.0												387	387	693	662
38/ 37	.3	1.5	.9	.8	.1													264	264	635	625
36/ 35	.3	1.7	.7	.6	.1													253	253	463	820
34/ 33	.2	.9	.5	.2	.0													130	130	321	694
32/ 31	.0	.4	.3	.2	.0													68	68	227	608
30/ 29	.1	.1	.1	.1														27	27	103	654
28/ 27	.0	.1	.1	.1														19	19	48	635
26/ 25		.0	.0	.0														6	6	21	400
24/ 23		.0																1	1	11	272

Element (X)	Σx²		Σx		X̄	σx		No. Obs.		Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		MAY
STATION	STATION NAME	YEARS		MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
22/ 21																				7	237
20/ 19																					148
18/ 17																					115
16/ 15																					67
14/ 13																					31
12/ 11																					16
10/ 9																					6
8/ 7																					4
TOTAL	1.2	13.6	15.0	13.2	11.1	10.0	8.0	7.7	7.0	4.4	3.1	2.6	1.7	.7	.4	.2	.2	7438	7439 / 7438	7438	7438

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	25233835	401245	53.92	1.967	7438							744
Dry Bulb	21247707	388575	52.22	11.305	7439		12.1	89.5	37.7	9.1		744
Wet Bulb	14210703	321439	43.2	6.554	7438		41.7					744
Dew Point	8783989	249371	33.5	7.545	7438		319.4					744

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
82/ 81													.1					1	1		
76/ 75												.1						1	1		
74/ 73										.1								1	1		
72/ 71					.1		.2	.1	.1									5	5		
70/ 69						.1	.7											8	8		
68/ 67					.1	.4	.7	.2	.2	.1	.2							18	18		
66/ 65				.3	.3	.7	.6	.7	.6	.2								30	30		
64/ 63			.3	.8	.7	1.1	.8	.8	.2									42	42		
62/ 61			.2	.2	1.2	1.8	1.6	1.1										55	55	1	
60/ 59		.2	.9	.7	1.6	2.3	.9	.1										60	60	10	
58/ 57		.3	.9	1.6	2.1	1.6	.7											64	64	26	4
56/ 55		.3	2.1	1.8	2.7	2.7	.3	.1										90	90	37	14
54/ 53		.9	3.2	1.9	1.7	1.7	.8											91	91	59	11
52/ 51		1.2	2.6	2.7	2.0	1.4	.2											91	91	102	28
50/ 49		1.6	3.8	2.9	1.0	.6	.1											89	89	115	39
48/ 47		2.4	2.4	2.4	.6	.6												76	76	118	66
46/ 45	.2	2.4	1.6	1.7	1.3	.1												66	66	138	101
44/ 43	.1	1.9	1.7	1.3	.8													52	52	93	112
42/ 41		1.0	.7	.4	.2													21	21	80	88
40/ 39		1.4	.8	.7														26	26	41	95
38/ 37		.1	.6															6	6	48	101
36/ 35			.1															1	1	17	89
34/ 33		.4																4	4	9	45
32/ 31		.1																1	1	4	32
30/ 29		.1																1	1	1	34
28/ 27																				1	26
26/ 25																					11
24/ 23																					1
22/ 21																					3
TOTAL	.3	14.6	21.8	19.3	16.2	15.0	6.7	3.9	1.1	.6	.3	.1		.1				900	900	900	900

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3960386	57948	64.4	15.971	900							90
Dry Bulb	2590134	47804	53.1	7.532	900		.2	3.4	.3	.1		90
Wet Bulb	1994699	42067	46.7	5.625	900		.6					90
Dew Point	1519368	36494	40.5	6.635	900		10.7					90

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0300-0500
HOURS (L. S. T.)

Temp (F)	\multicolumn{18}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23	24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
76/75										.1									1	1		
74/73						.1			.1		.1								3	3		
72/71									.1		.2								3	3		
70/69									.1										1	1		
68/67					.2				.3										5	5		
66/65				.1	.1	.3	.4		.2	.1									12	12		
64/63				.2	.6	.6	.8	.6	.3										27	27		
62/61		.3	.3	.1	.9	1.0	1.6	.1											39	39		
60/59			.7	.6	1.9	.6	.7												39	39	7	
58/57		.1	.2	1.2	1.6	1.8	.2	.1											47	47	11	3
56/55		.7	1.1	2.9	2.2	1.8	.1												79	79	18	5
54/53		.9	3.0	1.9	3.4	1.3	.1	.2											98	98	44	12
52/51		1.9	3.3	2.2	2.1	.8	.1												94	94	77	18
50/49		2.0	3.8	2.6	1.8		.1												92	92	111	24
48/47		3.7	3.3	2.8	1.3	.7	.1												107	107	118	74
46/45	.2	3.3	3.6	2.1	1.2	.1													95	95	146	91
44/43		1.1	2.6	1.7	1.0														57	57	104	132
42/41		1.8	1.6	.6	.6														40	40	81	71
40/39		1.0	1.6	.6															28	28	71	97
38/37		.4	1.2	.1															16	16	54	102
36/35		.8	.1																8	8	28	87
34/33		.4																	4	4	21	66
32/31	.1	.2																	3	3	6	33
30/29		.2																	2	2	1	33
28/27																					2	32
26/25																						11
24/23																						5
22/21																						4
TOTAL	.3	18.9	26.3	19.6	18.7	9.1	4.2	1.1	1.2	.2	.3								900	900	900	900

Element (X)	$\Sigma_{X'}$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4333242	60970	67.7	15.022	900							
Dry Bulb	2369706	45732	50.8	7.146	900		.5	1.3	.4			90
Wet Bulb	1878436	40810	45.3	5.574	900		.9					90
Dew Point	1466685	35857	39.8	6.510	900		11.8					90

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC FORM JUL 64 0-26-5 (OL A)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp. (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
82/ 81														.1				1	1		
80/ 79												.1			.2			3	3		
76/ 75								.1	.3	.2	.1							7	7		
74/ 73							.1	.4	.3	.1	.2	.1						12	12		
72/ 71						.1	.4	.7	.3		.2							16	16		
70/ 69						.2	.2	1.1	.4	.1	.2							21	21		
68/ 67				.1	.2	1.0	1.0	.9	.6	.1								35	35		
66/ 65			.1	.1	.4	1.0	2.0	.7	.1	.1								41	41		
64/ 63			.6	.7	1.0	3.0	2.2	1.6										81	81	1	
62/ 61			.2	.7	1.6	1.7	2.0	.7	.1									62	62	9	
60/ 59			.4	1.0	2.3	1.6	.9	.2										58	58	26	
58/ 57			1.3	2.2	2.9	1.8	.7	.3	.1									84	84	36	9
56/ 55		.6	2.1	1.9	1.9	2.1	.7	.2										85	85	56	9
54/ 53		.6	2.3	2.6	2.7	1.6	.4	.1										92	92	105	17
52/ 51		.7	1.9	1.8	1.7	1.0	.2	.1										66	66	123	35
50/ 49		2.4	2.9	1.8	1.8	.9	.1											89	89	111	59
48/ 47		2.0	3.1	2.0	1.1	.6												79	79	127	91
46/ 45	.2	1.4	1.8	.8	.4	.1												43	43	110	127
44/ 43		.2	.4	.4	.1													11	11	90	123
42/ 41	.1	.3	.2	.2														8	8	58	90
40/ 39			.2															2	2	27	81
38/ 37																				15	85
36/ 35																				2	50
34/ 33		.4																4	4		47
32/ 31																				4	27
30/ 29																					20
28/ 27																					23
26/ 25																					3
24/ 23																					2
22/ 21																					1
20/ 19																					1
TOTAL	.3	8.7	17.7	16.2	18.1	16.6	11.0	7.1	2.3	.7	.8	.2		.1	.2				900		900
																		900	900		

Element (X)	Σx²	Σx	X̄	σx	No. Obs.	Mean No. of Hours with Temperature
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel Hum.	3530607	54497	60.6	16.019	900							
Dry Bulb	2920807	50799	56.4	7.717	900			9.5	2.3	.1		90
Wet Bulb	2175774	43986	48.9	5.381	900		.4					90
Dew Point	1623873	37783	42.0	6.476	900		7.7					90

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   o8-77   YEARS   JUN MONTH

PAGE 1   0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
86/ 85												.2		.1				3	3		
84/ 83										.1	.1	.2	.3		.1			8	8		
82/ 81										.3	1.1	.4	.4	.1	.1	.3		26	26		
80/ 79									.8	1.3	1.0	.2	.2	.2	.1			35	35		
78/ 77								.1	.2	1.1	.6	.6	.3	.1				27	27		
76/ 75							.3	.8	1.2	1.3	.8	.4	.3					47	47		
74/ 73						.1	.3	.3	1.3	1.7	1.0	.6						48	48		
72/ 71						.6	.7	.8	1.4	1.2	.9	.2	.1					53	53		
70/ 69					.4	.4	1.0	1.6	1.3	1.8	.6	.1						65	65		
68/ 67					.2	.8	2.0	1.7	1.3	1.0	.2							65	65		
66/ 65				.1	.7	.7	1.9	1.7	1.1	.8	.1	.1						64	64	2	
64/ 63				.2	.4	1.7	1.7	2.1	2.1	.8	.3	.1						85	85	25	
62/ 61				.6	.4	.7	1.8	2.1	.9	.2								60	60	48	
60/ 59			.1	1.0	1.1	.8	.9	.9	.3	.1								47	47	52	
58/ 57			.7	1.3	1.2	.8	.8	.8	.2									52	52	73	7
56/ 55			1.3	1.0	.9	1.1	1.2											50	50	108	16
54/ 53		.2	1.6	1.1	1.0	1.2	.6	.2	.1									54	54	116	30
52/ 51		.7	2.1	1.6	1.1	1.1												59	59	113	36
50/ 49		1.2	.9	.3	.6	.2												29	29	116	71
48/ 47		.4	.4	.2	.1													11	11	94	91
46/ 45			.1	.2	.1													4	4	76	112
44/ 43		.2	.2	.1														5	5	44	86
42/ 41																				22	87
40/ 39																				7	73
38/ 37																				1	70
36/ 35		.2																2	2		64
34/ 33		.1																1	1	2	51
32/ 31																				1	35
30/ 29																					30
28/ 27																					24
26/ 25																					9
24/ 23																					.4
22/ 21																					2
20/ 19																					1

Element (X)	Σx²		Σx		x̄		σx		No. Obs.	Mean No. of Hours with Temperature						
										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F.	≥ 80 F	≥ 93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

USAFETAC   FORM JUL 64   0-26.5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
18/ 17																					1
TOTAL		3.1	7.4	7.8	8.3	10.1	13.1	13.0	12.4	11.8	6.7	3.2	1.8	.6	.3	.3			900		900
																		900		900	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2231410	42032	46.7	17.279	900			37.7	19.4	4.4		90
Dry Bulb	3807570	57932	64.4	9.348	900							90
Wet Bulb	2468463	46861	52.1	5.632	900		.1					90
Dew Point	1616697	37579	41.8	7.277	900		10.6					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME		YEARS	MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
92/ 91															.1	.2	.2	5	5		
90/ 89												.1		.3	.3	.2	.3	12	12		
88/ 87										.1	.1	.1	.6	.8	.6	.4	.3	26	26		
86/ 85											.3	.7	1.0	1.1	.1	.2	.2	33	33		
84/ 83										.2	.6	1.1	.8	.1	.3	.2	.2	32	32		
82/ 81									.1	.6	1.1	.9	.9	1.2	.3	.1		47	47		
80/ 79								.2	.4	.8	.8	1.4	1.4	.7	.1	.1		54	54		
78/ 77								.4	.2	.4	1.2	1.7	.8	.7	.2			51	51		
76/ 75							.2	.3	.6	.9	1.2	1.0	.8	.4				49	49		
74/ 73						.1		.2	.7	1.1	1.1	1.4	.4	.1				47	47		
72/ 71						.1	.7	.8	1.2	1.3	1.1	.7	.2					55	55		
70/ 69					.1	.3	.3	1.4	.8	2.1	1.1	.1	.2	.1				60	60	1	
68/ 67					.1	.7	1.8	.6	.8	1.2	1.1	.4						60	60	1	
66/ 65					.3	.4	.9	1.4	1.6	1.2	.2	.3						58	58	19	
64/ 63				.1	.6	.6	1.6	1.8	.8	1.6	.3							65	65	40	
62/ 61				.4	1.4	1.0	1.0	.8	1.3									54	54	52	
60/ 59				.7	1.4	.9	1.1	.4	.2									43	43	67	-2
58/ 57			.4	.3	.3	.9	1.0	.4	.1									32	32	83	10
56/ 55		.1	.8	1.3	.8	.2	.4	.2										35	35	124	10
54/ 53		.3	.8	1.0	.4	.3	.3											29	29	108	21
52/ 51		.1	1.1	.1	.6	.2												19	19	125	39
50/ 49	.1	.2	.3	.4	.2													12	12	104	65
48/ 47			.9	.1														9	9	70	66
46/ 45		.3	.2	.2														7	7	62	104
44/ 43		.3																3	3	29	68
42/ 41																				12	86
40/ 39																					90
38/ 37		.1	.1															2	2		79
36/ 35		.1																1	1	2	71
34/ 33																				1	52
32/ 31																					30
30/ 29																					40
28/ 27																					34
26/ 25																					16

Element (X)	Σx²		Σx		X̄	σₓ		No. Obs.		Mean No. of Hours with Temperature						
Rel. Hum.										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																
Wet Bulb																
Dew Point																

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 2   1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
24/ 23																					4
22/ 21																					10
20/ 19																					1
18/ 17																					2
TOTAL	.1	1.7	4.7	4.8	6.3	5.8	9.3	9.1	8.8	11.4	10.3	10.0	7.1	5.6	2.1	1.6	1.3	900	900	900	900

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0F	≤32F	≥67F	≥73F	≥80F	≥93F	Total
Rel. Hum.	1639569	35001	38.9	17.597	900							
Dry Bulb	4432391	62417	69.4	10.737	900			53.1	35.6	17.9		90
Wet Bulb	2603091	48133	53.5	5.668	900			.2				90
Dew Point	1544428	36630	40.7	7.721	900		13.7					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 1   1500-1700 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
94/ 93													.1	.1				2	2		
92/ 91														.3	.4	.3	.2	12	12		
90/ 89												.1		.4	.8	.1	.8	20	20		
88/ 87													.4	1.0	.6	.3	1.1	31	31		
86/ 85									.1		.1		.8	.4	.7	.1	.2	25	25		
84/ 83										.4	.2	1.0	1.1	.8	.8	.3		42	42		
82/ 81									.2	.3	1.3	.9	1.7	1.7	.6	.1		61	61		
80/ 79									.2	.3	1.6	.6	.6	1.3	.3	.4		48	48		
78/ 77								.3	.6	1.0	.9	1.2	1.2	.6	.2			54	54		
76/ 75						.1	.1	.2	.4	1.1	1.3	1.2	1.0	.4				54	54		
74/ 73						.1	.3	.1	.8	.8	2.2	1.0	.3					51	51		
72/ 71								1.0	.9	1.0	1.4	.7	.1	.1				47	47		
70/ 69				.1	.3	.1	.3	1.7	.4	2.0	.9	1.1	.6					68	68	3	
68/ 67						.2	1.2	.4	.2	.7	1.7	.1	.1					42	42	2	
66/ 65					.2	.6	1.2	.4	1.7	.9	.7	.3						54	54	19	
64/ 63				.1	1.1	.8	.8	1.2	1.4	1.0	.4							62	62	38	
62/ 61			.1	.4	.7	1.0	.9	.7	1.7									49	49	64	2
60/ 59				.7	1.2	.2	.7	.6	.6									35	35	53	3
58/ 57			.2	.8	1.3	.8	.2	.2	.1									33	33	80	6
56/ 55	.1		.6	1.7	.4	.7	.3	.2										36	16	133	13
54/ 53		.2	1.1	.7	.3	.4	.2											27	27	121	21
52/ 51		.1	1.3	.4	.2	.1												20	20	116	30
50/ 49		.1	.7	.6	.1													13	13	106	57
48/ 47		.9	.2															10	10	72	74
46/ 45		.1																1	1	61	116
44/ 43				.1														1	1	23	64
42/ 41			.1	.1														2	2	6	62
40/ 39																					75
38/ 37																				2	85
36/ 35																				1	77
34/ 33																					55
32/ 31																					44
30/ 29																					40
28/ 27																					37

Element (X)	Σx^2		Σx		$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

DATA PROCESSING BRANCH
ETAC
WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME		YEARS	MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
26/ 25																					25
24/ 23																					4
22/ 21																					7
20/ 19																					2
19/ 17																					1
TOTAL		.7	5.0	5.8	6.1	5.1	6.3	7.1	9.3	9.6	12.8	9.0	7.7	7.4	3.8	1.9	2.4		900		900
																		900		900	

Element (X)	Σx²	Σx	x̄	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1536060	33526	37.3	17.873	900							
Dry Bulb	4573656	63404	70.4	10.905	900			55.7	40.0	22.4	.2	90
Wet Bulb	2622057	48319	53.7	5.573	900			.5				90
Dew Point	1514551	36239	40.3	7.918	900		16.0					90

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	68-77	YEARS	JUN MONTH

PAGE 1   1800-2000 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
90/ 89											.1		.2	.1		.1	.1	6	6		
88/ 87												.1		.2			.3	6	6		
86/ 85											.1	.2	.2	.1	.1	.1	.2	10	10		
84/ 83										.1	.3	.2	.4	.1		.6		16	16		
82/ 81									.1	.1	1.0	.6	.2	.7	.3			27	27		
80/ 79							.2	.2	.1	.8	.7	.9	.9	.3	.3			40	40		
78/ 77							.2	.2	.9	.9	1.0	.2	.9	.1	.1			41	41		
76/ 75							.2	.4	.9	1.1	.8	1.1	.7	.2				49	49		
74/ 73						.1	.2	.3	.9	.4	1.1	.7	.2					36	36		
72/ 71					.1	.3	.1	.7	1.7	1.3	1.4	.3	.2					56	56		
70/ 69				.6	.2	1.0	1.6	1.3	1.0	.6	.1							57	57	2	
68/ 67				.4	.7	.2	1.3	.2	1.2	1.2	.6	.4						57	57	3	
66/ 65			.1	.2	.8	.9	1.2	.9	1.2	1.1	.4	.1						63	63	11	
64/ 63			.2	.9	1.2	2.0	.7	1.4	1.9	1.1	.4	.1						90	90	21	1
62/ 61			.3	1.6	.7	.3	1.0	1.1	1.3	.7								63	63	48	3
60/ 59			.3	1.3	1.1	1.1	1.2	1.1	.3		.1							60	60	47	8
58/ 57		.2	.3	1.6	.6	1.0	.4	.9	.2									47	47	95	16
56/ 55		.3	1.6	1.0	.8	.8	.9	.4										52	52	112	20
54/ 53			1.9	1.6	.6	.8	.3	.2										48	48	123	32
52/ 51		.6	2.0	.8	.2	.1	.1											34	34	98	40
50/ 49		.8	1.7	.2		.1												25	25	111	70
48/ 47		.3	.3	.2														8	8	106	93
46/ 45		.3	.1	.1	.1													6	6	68	97
44/ 43		.1		.1														2	2	37	80
42/ 41				.1														1	1	12	56
40/ 39																				3	63
38/ 37																				1	69
36/ 35																				2	66
34/ 33																					44
32/ 31																					43
30/ 29																					37
28/ 27																					24
26/ 25																					23
24/ 23																					9

Element (X)	Σx²			Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
Rel. Hum.												≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb																		
Wet Bulb																		
Dew Point																		

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
22/ 21																					2
20/ 19																					2
18/ 17																					2
TOTAL		2.6	9.0	10.0	7.4	8.0	9.2	9.8	12.2	9.8	8.7	5.0	4.1	1.9	.9	.8	.7		900		900
																		900		900	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2209196	41028	45.6	19.415	900							
Dry Bulb	3977937	59195	65.8	9.698	900			40.1	23.1	7.9		90
Wet Bulb	2524627	47399	52.7	5.614	900			.5				90
Dew Point	1630553	37565	41.7	8.347	900		14.2					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUN
STATION	STATION NAME	YEARS		MONTH

PAGE 1   2100-2300
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/ 83													.1					1	1		
82/ 81												.1						1	1		
80/ 79										.1	.1	.1						3	-		
78/ 77									.1	.1	.1	.1						4	4		
76/ 75									.3	.1	.1	.2	.1					8	8		
74/ 73								.2	.2	.2	.2							8	8		
72/ 71						.4	.8	.3	.4	.3	.6	.1						27	27		
70/ 69					.1	.4	.6	1.2	.4	.3	.2	.1						31	31		
68/ 67					.2	.8	.6	1.3	.9	.9	.1							43	43		
66/ 65			.1	.1	1.0	.7	1.8	1.4	.6	.3								54	54		
64/ 63			.8	.4	.3	1.9	1.4	1.3	.8	.3								66	66		
62/ 61			.2	.6	1.9	1.9	1.9	1.0	.1									68	68		12
60/ 59		.1	.7	1.3	1.9	1.2	1.2	.8	.1									66	66	37	1
58/ 57		.7	1.6	1.1	2.3	1.3	1.6	.8	.1									85	85	32	6
56/ 55		.4	3.1	1.7	1.8	2.7	.6	.4	.1									97	97	70	20
54/ 53		.9	2.0	1.8	.7	2.6	1.4	.1										85	85	101	23
52/ 51		.9	2.0	2.1	1.7	.9	1.0	.1										78	78	126	39
50/ 49		1.6	3.8	1.2	1.2	.3	.2											75	75	121	61
48/ 47		1.1	1.4	.9	.3	.1												35	35	102	85
46/ 45		.8	.9	.6	.9													28	23	117	108
44/ 43		1.3	.4	.8	.1	.2												26	26	79	100
42/ 41		.2	.2															4	4	52	86
40/ 39		.1	.1	.1														3	3	28	64
38/ 37																				14	82
36/ 35		.1	.1															2	2	2	76
34/ 33		.1	.1															2	2	4	34
32/ 31																				3	34
30/ 29																					31
28/ 27																					28
26/ 25																					14
24/ 23																					3
22/ 21																					3
20/ 19																					1
18/ 17																					1

Element (X)	Σx²		Σẋ		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUN
STATION	STATION NAME	YEARS	MONTH

PAGE 2   **2100-2300**
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
TOTAL		8.3	17.6	12.7	14.4	15.4	13.0	9.1	4.2	2.8	1.4	.8	.2					900	900	900	900

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3292437	52083	57.9	17.597	900							
Dry Bulb	3033321	51765	57.5	7.890	900			12.6	2.5	.3		90
Wet Bulb	2203071	44251	49.2	5.515	900		.3					90
Dew Point	1598050	37348	41.5	7.322	900		11.5					90

USAFETAC   FORM 0-26-5 (OL A)   JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

Temp (F)	\	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
94/93													.0	.0				2	2		
92/91														.0	.1	.1	.1	17	17		
90/89											.0	.0	.0	.1	.1	.1	.2	38	38		
88/87											.0	.2	.1	.3	.1	.1	.2	63	63		
86/85									.0		.1	..	.2	.3	.0	.1	.1	71	71		
84/83									.0	.1	.2	.	.3	.1	.2	.1	.0	99	99		
82/81									.1	.2	.6	.4	.4	.5	.2	.1		164	164		
80/79							.0	.1	.2	.4	.5	.4	.4	.3	.1	.1		183	183		
78/77							.0	.1	.3	.4	.5	.5	.4	.2	.1			177	177		
76/75						.0	.1	.2	.5	.6	.5	.5	.4	.1				216	216		
74/73						.1	.1	.2	.5	.6	.8	.5	.1	.0				206	206		
72/71					.0	.2	.3	.6	.8	.7	.7	.3	.1	.0				262	262		
70/69				.0	.2	.2	.4	1.2	.6	.9	.5	.2	.1	.0				311	311	6	
68/67				.1	.2	.5	1.1	.7	.7	.7	.5	.1	.0					325	325	6	
66/65			.0	.1	.5	.7	1.3	.9	.9	.6	.2	.1						376	376	51	
64/63			.2	.4	.7	1.4	1.2	1.3	.9	.6	.2	.0						518	518	125	1
62/61		.0	.2	.6	1.1	1.2	1.5	.9	.7	.1								450	450	234	5
60/59		.0	.4	.9	1.6	1.1	.9	.5	.2	.0	.0							408	408	299	14
58/57		.2	.7	1.3	1.5	1.2	.7	.4	.1									444	444	436	61
56/55		.3	1.6	1.7	1.4	1.5	.6	.2	.0									524	524	658	107
54/53		.5	2.0	.6	1.3	1.2	.5	.1	.0									524	524	777	167
52/51		.8	2.0	1.5	1.2	.7	.2	.0										461	461	880	265
50/49	.0	1.2	2.2	1.3	.8	.3	.1											424	424	895	446
48/47		1.3	1.6	1.1	.4	.2	.0											335	335	807	640
46/45	.1	1.1	1.0	.7	.5	.0												250	250	778	856
44/43	.0	.6	.7	.5	.3	.0												157	157	499	765
42/41	.0	.4	.3	.2	.1													76	76	323	626
40/39		.3	.2	.2														59	59	177	638
38/37		.1	.2	.0														24	24	135	673
36/35		.2	.0															14	14	54	580
34/33		.2	.0															15	15	37	394
32/31	.0	.0																4	4	18	278
30/29		.0																3	3	2	265
28/27																				3	228

Element (X)	Σx²			Σx		x̄	σx		No. Obs.	Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	08-77		JUN
STATION	STATION NAME		YEARS	MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
26/ 25																					112
24/ 23																					32
22/ 21																					32
20/ 19																					8
18/ 17																					7
TOTAL	.1	7.3	13.7	12.0	12.0	10.6	9.1	7.5	6.5	5.8	5.2	3.5	2.6	2.0	.9	.6	.6		7200		7200
																		7200		7200	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	22732907	377085	52.4	20.359	7200							
Dry Bulb	27705522	439048	61.0	11.383	7200		.7	213.4	123.6	53.1	.2	720
Wet Bulb	18470218	361826	50.3	6.316	7200		2.3	1.2				720
Dew Point	12515205	295495	41.0	7.340	7200		96.2					720

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0000-0200
HOURS (L. S. T.)

Temp (F)	_WET BULB TEMPERATURE DEPRESSION (F)_ 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
82/ 81														.1				1	1		
80/ 79												.1						1	1		
78/ 77											.1							1	1		
76/ 75						.1				.1	.2							4	4		
74/ 73								.1	.4	.1	.2							8	8		
72/ 71						.1	.1	.4	.8	.4	.3							20	20		
70/ 69			.1				.2	.4	.9	.4	.1							20	20		
68/ 67		.2	.2		.6	.8	1.3	1.3	1.0	.4								54	54		
66/ 65		.3	.4	.2	.9	1.0	2.3	.9	.5	.1								61	61	4	2
64/ 63			.3	.3	1.1	3.9	2.2	1.2	.4									87	87	6	4
62/ 61		.3	.3	1.1	1.6	2.7	1.9	1.2	.9	.3								96	96	4	3
60/ 59		.2	1.2	1.3	3.1	3.3	1.0	.6	.3									103	103	21	5
58/ 57		1.4	1.8	1.5	2.6	2.8	.5	.4	.2	.1								106	106	47	6
56/ 55		.5	1.7	3.7	2.3	3.3	.9	.1										116	116	97	21
54/ 53		.9	1.3	3.0	2.5	1.7	.9											95	95	126	33
52/ 51		.6	1.0	1.3	1.1	.9	.1											43	43	154	36
50/ 49		.1	1.3	.6	.8	.4	.1	.1										32	32	126	60
48/ 47		.4	1.2	.8	.4	.6	.1											33	33	113	72
46/ 45		.5	.2	.6	1.1		.2											25	25	92	132
44/ 43		.5	.3	.3	.1	.1												13	13	56	107
42/ 41		.1	.1	.6		.1												9	9	33	106
40/ 39		.1			.1													2	2	23	86
38/ 37																				17	77
36/ 35																				8	45
34/ 33																				2	33
32/ 31																				1	26
30/ 29																					35
28/ 27																					24
26/ 25																					4
24/ 23																					3
22/ 21																					4
20/ 19																					3
18/ 17																					3

Element (X)	$\Sigma_X{}^2$		Σ_X		$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26-5 (OL A) JUL 64

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	08-77		JUL
STATION	STATION NAME		YEARS	MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL		6.3	11.5	15.1	18.2	21.7	11.8	6.8	5.4	2.0	1.0	.1		.1				930	930 930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3269264	53126	57.1	15.886	930							
Dry Bulb	3215109	54311	58.4	6.835	930			10.9	1.5	.2		93
Wet Bulb	2347099	46451	49.9	5.391	930		.1					93
Dew Point	1713337	39307	42.3	7.482	930		10.2					93

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUL
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
82/ 81													.1					1	1		
80/ 79														.1				1	1		
78/ 77													.1					1	1		
74/ 73								.1	.4	.1								6	6		
72/ 71							.2	.2	.3									7	7		
70/ 69						.3	.2	1.0	.1	.1	.1							17	17		
68/ 67		.1			.1	.2	.4	.5	.1									14	14		
66/ 65		.1	.1		.2	.5	1.7	.5	.2	.1								33	33	2	
64/ 63		.1	.2	.5	.8	1.2	.9	.8	.2									43	43		2
62/ 61		.6		1.0	1.5	1.7	1.1	.5	.3									63	63	3	2
60/ 59		.6	1.0	1.6	3.8	1.8	.6	.3										91	91	13	4
58/ 57		1.1	1.0	2.4	3.3	3.1	.5	.2										108	108	29	7
56/ 55		1.4	1.4	3.5	4.2	1.8	.3											118	118	72	10
54/ 53		1.4	2.4	3.9	4.2	1.3	.4											126	126	91	35
52/ 51		1.0	1.9	4.6	1.9	.6	.2											96	96	129	33
50/ 49		.4	2.9	1.5	1.0	.6												60	60	131	41
48/ 47		.8	1.5	1.2	.5	.4	.1											42	42	146	84
46/ 45		.8	1.3	1.0	1.6	.3	.1											47	47	136	117
44/ 43		.4	.9	1.0	.3	.4												28	28	49	118
42/ 41		.6	.3	.4	.1													14	14	45	123
40/ 39		.3	.6	.2														11	11	31	102
38/ 37			.2															2	2	29	79
36/ 35			.1															1	1	14	48
34/ 33																				9	35
32/ 31																				1	23
30/ 29																					23
28/ 27																					29
26/ 25																					4
24/ 23																					1
22/ 21																					4
20/ 19																					6
TOTAL		9.8	15.8	22.8	23.4	14.6	6.7	4.1	1.3	1.0	.2		.2	.1					930		930
																		930		930	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	3843981	58191	62.6	14.779	930							93
Dry Bulb	2882702	51388	55.3	6.827	930				4.7	.9	.1	93
Wet Bulb	2205667	45007	48.4	5.448	930		.1					93
Dew Point	1680937	39003	41.9	6.975	930		9.0					93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26.5 (OL A) JUL 64

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
80/ 79										.2	.2	.2		.1				7	7		
78/ 77									.3	.1	.1	.1						6	6		
76/ 75					.2			.1	.5	.3	.1	.3	.1					16	16		
74/ 73						.1	.3	.4	.8	1.1	.1							26	26		
72/ 71				.1	.2	.2	.6	1.2	.6	.5	.2							35	35		
70/ 69				.2	.1	.5	1.6	1.4	.8	.3								46	46		
68/ 67		.1	.1	.2	1.0	1.7	1.8	1.5	1.1	.1								71	71	2	
66/ 65		.1	.4	.5	.9	2.4	2.4	1.0	.4	.5	.1							81	81	3	1
64/ 63		.1	.2	.4	2.0	2.6	2.7	1.6	.6	.1								97	97	8	4
62/ 61		.1	1.2	1.1	3.2	1.9	2.9	.6	.6		.1							110	110	22	5
60/ 59		.5	.5	1.9	2.8	3.6	1.4	.4										104	105	52	7
58/ 57		.8	.8	2.5	2.6	2.2	1.2	.3	.1									96	96	90	15
56/ 55		.5	1.8	2.0	2.5	1.3	.5	.1	.1									83	83	112	27
54/ 53		.2	1.7	1.2	1.6	1.1	.1											55	55	148	33
52/ 51		.2	1.1	1.1	.8	.6		.2										37	37	138	42
50/ 49			1.4	.4	.3	.2												22	22	125	102
48/ 47		.3	.6	.3	.3													15	15	94	122
46/ 45		.3	.8	.3	.1	.1												15	15	70	104
44/ 43		.4	.1															5	5	31	113
42/ 41																				22	102
40/ 39		.1		.1														2	2	8	84
38/ 37																				2	46
36/ 35																				1	41
34/ 33																				1	37
32/ 31																					22
30/ 29																					11
28/ 27																					6
24/ 23																					2
22/ 21																					4
20/ 19																					1
TOTAL		3.9	10.8	12.5	18.6	18.5	15.6	8.9	6.0	3.3	1.0	.6	.1	.1				.929	930	929	929

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel Hum.	3094125	51701	55.7	15.286	929			20.7	5.5	.3		93
Dry Bulb	3521460	56854	61.1	7.020	930							93
Wet Bulb	2530506	48256	51.9	5.074	929				.2			93
Dew Point	1852257	40999	44.1	6.797	929		4.6					93

Mean No. of Hours with Temperature

0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE   FORM JUL 64   USAFETAC

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS (STATION NAME)	68-77	YEARS	JUL MONTH

PAGE 1   0900-1100   HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
94/ 93																.1	.1	2	2		
92/ 91														.1				1	1		
90/ 89														.2	.1	.1	.3	7	7		
88/ 87												.1	.3	.3	.4	.2	.1	14	14		
86/ 85									.1		.2	.2	.3	.2	.1			11	11		
84/ 83									.1	.1	.4	.3	.9	.4	.5	.1		27	27		
82/ 81								.1	.1	.5	1.8	1.1	1.4	.5	.3			55	55		
80/ 79						.1	.1	.4	.8	1.4	1.7	1.3	1.2	.5	.1			71	71		
78/ 77							.4	.8	.8	2.2	1.3	1.4	1.1	.1				74	74		
76/ 75				.1		.3	.4	.8	2.5	1.8	1.5	.9	.2					79	79		
74/ 73			.1			.3	.6	1.9	2.2	1.3	.8	.9	.2					77	77		
72/ 71				.2	.1	.2	1.7	1.6	2.0	2.2	1.2	.4	.3	.1				94	94		
70/ 69					.2	.5	1.0	2.2	1.5	1.8	1.2	.2	.2					82	82	5	
68/ 67		.1	.1		.6	1.6	2.2	2.2	1.4	.8	.6	.2						91	91	5	2
66/ 65			.1	.2	.6	.8	1.4	1.7	1.1	.5	.6							66	66	20	2
64/ 63			.4	.2		1.2	1.1	1.8	1.0	.6	.2							61	61	47	2
62/ 61		.1	.4	.1	1.0	1.4	.8	.6	.1	.1								43	43	82	9
60/ 59			.3	.3	.8	.3	.2		.2									20	20	141	9
58/ 57			.3	.3	.2	.2												10	10	145	12
56/ 55		.2	.3	.5	.4	.1												15	15	130	27
54/ 53		.1	.9	.2		.2												13	13	121	44
52/ 51			.3	.1	.2	.1												7	7	98	70
50/ 49			.2		.1													3	3	77	89
48/ 47			.2	.1														3	3	28	91
46/ 45		.2	.1															3	3	18	130
44/ 43		.1																1	1	10	87
42/ 41																				3	75
40/ 39																					68
38/ 37																					65
36/ 35																					55
34/ 33																					37
32/ 31																					13
30/ 29																					12
28/ 27																					12

Element (X)	Σ_{X^2}		Σ_X		$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUL
STATION   STATION NAME   YEARS   MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
26/ 25																					12
24/ 23																					·4
22/ 21																					3
TOTAL		.9	3.9	2.5	4.5	7.4	9.9	14.1	13.8	13.3	11.6	7.0	6.1	2.6	1.6	.5	.5		930		930
																		930		930	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	170,387	37303	40.1	15.076	930							
Dry Bulb	4794331	66345	71.3	8.127	930			68.5	41.8	14.9	.2	93
Wet Bulb	2925106	51952	55.9	4.970	930			1.0				93
Dew Point	1863903	41041	44.1	7.536	930		5.6	.2				93

24112	MALMSTROM AFB MT/GREAT FALLS	69-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
100/ 99																	.2	2	2		
98/ 97																	.2	2	2		
96/ 95																	.8	7	7		
94/ 93															.1	.5	.6	12	12		
92/ 91														.1	.2	.5	1.9	26	26		
90/ 89											.1	.2	.5	.2	.9	.8	.9	33	33		
88/ 87								.1		.3	.2	.4	.4	1.3	1.0	.8	.9	50	50		
86/ 85									.1		.3	1.3	1.6	1.6	1.4	1.6	.2	76	76		
84/ 83									.2	.2	.9	1.2	1.9	1.9	1.2	.5	.3	78	78		
82/ 81						.1		.2	.5	.5	1.0	1.9	1.5	1.2	1.2	.3	.1	80	80		
80/ 79						.1		.1	.6	1.4	2.4	2.5	1.2	.3	.4	.5		89	89		
78/ 77				.1	.1	.1	.2	.4	.9	1.5	1.4	1.4	.5	.3	.6			73	73		
76/ 75				.1	.1		.1	.6	1.4	2.5	1.4	1.4	.6	1.0				86	86		
74/ 73				.1	.2		.1	1.0	1.3	1.4	1.8	1.1	.3	.4				72	72	1	
72/ 71				.2	.2	.1	.3	.6	1.7	1.8	1.5	.3	.6					70	70	3	
70/ 69				.1	.1	.4	.4	1.1	1.1	1.3	.4	.6	.1					53	53	8	1
68/ 67				.1	.2	.4	.5	.6	.3	.5	.2	.3						31	31	13	5
66/ 65				.2	.2	.1	.5	.5	.3		.1							19	19	33	1
64/ 63				.6	.4	.6	.5	.2		.2								25	25	68	1
62/ 61			.1		.3	.4		.2										10	10	112	10
60/ 59			.1	.2	.4		.1											8	8	151	6
58/ 57			.1	.2	.3		.1											7	7	158	19
56/ 55			.2	.2	.4	.3	.2											13	13	131	17
54/ 53			.1	.1		.2												4	4	107	44
52/ 51				.1	.1													2	2	70	51
50/ 49			.1															1	1	36	56
48/ 47				.1														1	1	25	66
46/ 45																				8	122
44/ 43																				5	104
42/ 41																				1	78
40/ 39																					75
38/ 37																					82
36/ 35																					59
34/ 33																					42

Element (X)	Σx^2		Σx		$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb														
Wet Bulb														
Dew Point														

PSYCHROMETRIC SUMMARY

24112 — MALMSTROM AFB MT/GREAT FALLS — 68-77

STATION — STATION NAME — YEARS — JUL MONTH

PAGE 2 — 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
32/ 31																					23
30/ 29																					10
28/ 27																					26
26/ 25																					23
24/ 23																					6
22/ 21																					2
20/ 19																					1
TOTAL			.8	2.6	3.2	3.0	3.2	5.8	8.5	11.7	11.9	12.7	9.5	8.4	7.0	5.6	6.1		930		930
																		'930		930	

Element (X)	$\Sigma x'$	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1100959	29285	31.5	13.873	930							
Dry Bulb	5670892	72180	77.6	8.605	930			84.0	68.6	41.2	2.3	93
Wet Bulb	3082873	53355	57.4	4.849	930			2.5	.1			93
Dew Point	1763174	39778	42.8	8.155	930		9.1	.6				93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1500-1700
HOURS (L. S. T.)

Temp (F)	\<WET BULB TEMPERATURE DEPRESSION (F)\>																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
104/103																	.3	3	3		
100/ 99																	.1	1	1		
98/ 97																	.1	1	1		
96/ 95																	1.2	11	11		
94/ 93																	2.7	25	25		
92/ 91														.5	.5	.9	2.9	45	45		
90/ 89										.2	.1	.1		1.3	1.3	1.4	1.8	58	58		
88/ 87										.1		.5	.5	1.9	1.4	1.2	2.6	77	77		
86/ 85									.1	.4	.4	.8	1.3	1.9	1.3	1.3	1.0	79	79		
84/ 83							.2			.5	.9	1.2	2.0	1.5	1.6	.5	.5	84	84		
82/ 81				.1		.1		.1	.1	.6	1.0	1.8	1.6	1.2	.8	1.0	.3	81	81		
80/ 79				.1	.1		.1	.3	.5	.4	1.8	1.9	1.0	1.6	1.2	.4	.1	90	90		
78/ 77						.1		.1	.6	.9	2.0	2.2	.9	1.0	.3	.2		77	77		
76/ 75								.3	1.0	2.0	1.5	1.5	.6	.8				72	72		
74/ 73				.1	.1		.1	.9	.6	.9	1.1	.6	.2	.3				46	46	4	
72/ 71					.5	.1	.4	.3	.8	.9	.6		.3	.1				38	38	5	
70/ 69				.2	.2	.6	.2	.6	.4	1.2		.4	.2					39	39	5	3
68/ 67				.2	.3	.6	.3	.2	.2	.5	.1	.1						25	25	7	3
66/ 65				.2	.1		.3	.3	.1	.2								12	12	32	2
64/ 63			.1	.2	.3	.5	.8		.3									21	21	66	2
62/ 61				.1		.3	.1	.2		.1								8	8	120	6
60/ 59			.2	.3	.2	.2	.1											10	10	159	10
58/ 57			.3	.3	.2	.1	.1											10	10	161	14
56/ 55					.2	.4												6	6	134	18
54/ 53		.1				.2												3	3	108	34
52/ 51			.1			.1												2	2	64	47
50/ 49		.1	.3															4	4	26	51
48/ 47			.1															1	1	24	56
46/ 45		.1																1	1	12	88
44/ 43																				3	104
42/ 41																					80
40/ 39																					78
38/ 37																					71
36/ 35																					74

Element (X)	Σx²		Σx		X̄		σx		No. Obs.		Mean No. of Hours with Temperature						
											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME		YEARS	MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31				
34/ 33																					67
32/ 31																					33
30/ 29																					20
28/ 27																					34
26/ 25																					17
24/ 23																					7
22/ 21																					7
20/ 19																					3
18/ 17																					1
TOTAL		.3	1.1	1.9	2.5	3.4	2.9	3.4	4.8	9.0	9.6	11.2	8.7	12.2	8.4	6.9	13.7		930		930
																		930		930	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	977039	26821	28.8	14.801	930							
Dry Bulb	5970982	74038	79.6	9.090	930			85.2	75.0	50.7	4.1	93
Wet Bulb	3095587	53469	57.5	4.807	930			2.1	.4			93
Dew Point	1679385	38705	41.6	8.590	930		12.2	.6				93

USAFETAC FORM 0-26-5 (CL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTRUM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1800-2000 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101																	.1	1	1		
98/ 97																	.1	1	1		
96/ 95																	.3	3	3		
94/ 93																	.5	5	5		
92/ 91																	.3	3	3		
90/ 89														.4	.4	.4	1.4	25	25		
88/ 87												.1	.4	1.0	.6	.8	1.1	37	37		
86/ 85										.1	.1	.2	.3	.6	1.3	.8	.6	38	38		
84/ 83							.1		.3	.2	.3	.8	1.3	1.3	1.4	.4	.4	61	61		
82/ 81							.1	.1	.3	.5	1.1	2.4	1.3	1.0	.9	1.0	.1	81	81		
80/ 79					.1	.2	.1	.3	.8	.6	2.4	1.4	1.2	.9	.3	.3		80	80		
78/ 77				.1		.2	.1	.4	.8	1.3	1.3	1.6	1.0	1.4	.1			77	77		
76/ 75			.2		.2		.2	1.0	1.6	2.4	1.0	1.3	.6	.4		.1		84	84		
74/ 73				.1	.1	.3	.5	1.2	2.0	2.0	1.8	.5	.6	.2	.1			90	90		
72/ 71				.1	.	.3	.6	1.5	1.5	1.0	1.4	.6	.8					75	75	6	1
70/ 69					.3	1.0	.5	1.2	1.2	1.1	.4	.5	.3					61	61	5	2
68/ 67			.1	.3	.5	.9	.8	.9	.8	.5	.3	.3						50	50	9	3
66/ 65				.4	.4	.9	.2	.4	.8	.3	.4							36	36	20	2
64/ 63			.5	.3	.5	1.0	.9	.6	.6	.2	.1							45	45	39	3
62/ 61		.1	.1	.5	.3	.4	.3	.5	.1									23	23	88	8
60/ 59			.1	.1	.3	.4	.1											10	10	158	10
58/ 57			.6	.2	.4	.2	.1											15	15	146	20
56/ 55			.3	.3	.1	.2		.1										10	10	151	37
54/ 53		.1	.1	.3	.1	.2												8	8	111	28
52/ 51			.2	.1	.1			.1										5	5	89	46
50/ 49		.1																1	1	51	54
48/ 47		.2																2	2	29	90
46/ 45																				22	114
44/ 43		.2																2	2	2	79
42/ 41		.1																1	1	2	63
40/ 39																				2	68
38/ 37																					69
36/ 35																					51
34/ 33																					54

Element (X)	Σx²		Σx		X̄	σₓ	No. Obs.			Mean No. of Hours with Temperature					
Rel. Hum.								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb														
Wet Bulb														
Dew Point														

24112   STATION   MALMSTROM AFB MT/GREAT FALLS   STATION NAME   68-77   YEARS   JUL MONTH

PAGE 2   1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
32/ 31																					34
30/ 29																					28
28/ 27																					35
26/ 25																					16
24/ 23																					4
22/ 21																					6
20/ 19																					1
18/ 17																					3
16/ 15																					1
TOTAL		.9	2.4	3.0	3.9	6.2	4.7	8.4	10.9	10.2	10.6	9.8	7.8	7.2	5.2	3.8	5.1		930		930
																		930		930	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1404327	32549	35.0	16.894	930							
Dry Bulb	5269286	69524	74.8	8.796	930			77.2	58.6	29.5	1.0	93
Wet Bulb	2977279	52419	56.4	4.944	930			2.0				93
Dew Point	1753482	39524	42.5	8.910	930		12.8	.6				93

USAFETAC FORM JUL 64 0-26-5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	68-77 YEARS		JUL MONTH

PAGE 1 **2100-2300** HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
96/ 95																	.1	1	1		
88/ 87															.1	.1		2	2		
86/ 85															.1			1	1		
82/ 81												.3	.1					4	4		
80/ 79							.1	.1	.1		.4	.4	.3	.1				15	15		
78/ 77						.1				.1	.4	.3	.2	.2				13	13		
76/ 75									.3	.8	.4	.5	.2					21	21		
74/ 73				.1	.1		.1	.5	1.6	1.3	.6	.9	.2					51	51		
72/ 71			.1	.1	.1	.4	.9	1.1	1.8	.8	.8			.1				57	57		
70/ 69		.2	.4	.2		.6	.8	2.5	1.6	1.6	.6	.3	.1					84	84		
68/ 67		.1	.1	.3	1.2	.5	4.2	2.5	2.2	.9	.2	.1						114	114	7	
66/ 65			.1	.5	1.4	1.5	3.3	1.4	1.5	.6	.3							100	100	8	5
64/ 63			.2	1.0	.9	2.4	2.5	2.0	1.0	1.0	.1							102	102	5	6
62/ 61		.1	1.1	.9	1.3	1.9	1.2	1.1	1.1	.4								84	84	16	2
60/ 59		.2	.8	1.9	1.4	1.3	1.3	.2	.6									72	72	59	8
58/ 57		.3	.9	1.4	1.1	1.6	.9	.5	.2									64	64	99	9
56/ 55		.3	1.4	1.0	1.2	.8	.4	.2	.1									50	50	149	27
54/ 53		.2	.9	1.0	.8	1.1	.4	.1										41	41	156	34
52/ 51		.1	1.1	.1	.4	.4												20	20	139	44
50/ 49		.2	.4	.2	.2	.3		.1										14	14	86	72
48/ 47		.4	.2		.3			.1										10	10	91	92
46/ 45		.2		.2	.2	.1												7	7	54	122
44/ 43																				35	90
42/ 41		.3																3	3	12	88
40/ 39																				11	68
38/ 37																				2	60
36/ 35																				1	65
34/ 33																					37
32/ 31																					21
30/ 29																					37
28/ 27																					20
26/ 25																					13
24/ 23																					1
22/ 21																					4

Element (X)	Σx²		Σx		X̄	σx	No. Obs.		Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

24112   MALMSTROM AFB MT/GREAT FALLS   68-77

STATION   STATION NAME   YEARS

JUL
MONTH

PAGE 2   2100-2300
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
20/ 19																					4
18/ 17																					1
TOTAL		2.8	7.6	8.9	10.5	13.1	16.1	12.4	12.2	7.4	4.0	2.9	1.2	.4	.2	.1	.1	'930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\overline{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2484797	45359	48.8	17.127	930							
Dry Bulb	3865631	59573	64.1	7.304	930			36.3	10.8	1.1	.1	93
Wet Bulb	2592854	48876	52.6	5.102	930			.7				93
Dew Point	1761143	39781	42.8	8.003	930		10.1					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 — STATION   MALMSTROM AFB MT/GREAT FALLS — STATION NAME   08-77 — YEARS   JUL — MONTH

PAGE 1   ALL HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
104/103																	.0	3	3		
102/101																	.0	1	1		
100/ 99																	.0	3	3		
98/ 97																	.1	4	4		
96/ 95																	.3	22	22		
94/ 93															.0	.1	.5	44	44		
92/ 91														.1	.1	.2	.6	75	75		
90/ 89										.0	.0	.0	.1	.3	.3	.3	.6	123	123		
88/ 87								.0		.1	.0	.1	.2	.6	.4	.4	.6	180	180		
86/ 85									.1	.1	.1	.3	.4	.6	.5	.5	.2	205	205		
84/ 83							.0		.1	.1	.3	.4	.8	.6	.6	.2	.2	250	250		
82/ 81					.0	.0	.0	.1	.1	.3	.6	.9	.8	.5	.4	.3	.1	303	303		
80/ 79				.0	.0	.1	.1	.2	.3	.5	1.1	1.0	.6	.5	.3	.2	.0	354	354		
78/ 77				.0	.0	.1	.1	.2	.4	.8	.9	.9	.5	.4	.1	.0		322	322		
76/ 75			.0	.0	.1	.0	.1	.3	.9	1.2	.8	.7	.3	.3		.0		362	362		
74/ 73			.0	.1	.1	.1	.2	.8	1.1	1.1	.8	.5	.2	.1	.0			376	376	5	
72/ 71			.0	.1	.2	.2	.6	.9	1.2	1.0	.8	.2	.3	.0				396	396	14	1
70/ 69	.0	.1	.1	.1	.5	.6	1.3	.9	1.0	.4	.3	.1						402	402	23	6
68/ 67		.1	.1	.1	.6	.8	1.4	1.2	.9	.5	.2	.1						450	450	43	13
66/ 65		.1	.1	.3	.6	.9	1.5	.8	.6	.3	.2							408	408	122	15
64/ 63		.0	.3	.5	.8	1.7	1.4	1.0	.5	.3	.1							481	481	239	24
62/ 61		.2	.4	.6	1.2	1.4	1.0	.6	.4	.1	.0							437	437	447	43
60/ 59		.2	.5	1.0	1.6	1.4	.6	.2	.1									418	419	754	59
58/ 57		.4	.7	1.1	1.3	1.3	.4	.2	.1	.0								416	416	875	102
56/ 55		.4	.9	1.4	1.4	1.0	.3	.1	.0									411	411	976	184
54/ 53		.4	.9	1.2	1.1	.8	.2	.0										345	345	968	285
52/ 51		.2	.7	.9	.6	.3	.0	.0										212	212	881	369
50/ 49		.1	.8	.3	.3	.2	.0	.0										137	137	658	525
48/ 47		.3	.5	.3	.2	.1	.0											107	107	550	673
46/ 45		.3	.3	.3	.4	.1	.0											98	98	412	929
44/ 43		.2	.2	.2	.1	.1												49	49	191	802
42/ 41		.1	.1	.1	.0													27	27	118	715
40/ 39		.1	.1	.0	.0													15	15	75	629
38/ 37			.0															2	2	50	549

Element (X)	ΣX²			ΣX			X̄		σx		No. Obs.				Mean No. of Hours with Temperature						
												≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≤93 F	Total			
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JUL
STATION	STATION NAME	YEARS		MONTH

PAGE 2 ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
36/ 35			.0															1	1	24	438
34/ 33																				12	342
32/ 31																				2	195
30/ 29																					176
28/ 27																					186
26/ 25																					89
24/ 23																					28
22/ 21																					34
20/ 19																					19
18/ 17																					8
16/ 15																					1
TOTAL		3.1	6.7	8.7	10.6	11.0	8.9	8.0	7.9	7.3	6.2	5.5	4.2	3.9	2.8	2.1	3.2		7440		7439
																		7439	7439		

Element (X)	Σ_{X^2}	Σ_X	$\overline{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	17881879	334335	44.9	19.594	7439							
Dry Bulb	35190483	504213	67.8	11.706	7440			.387.5	262.7	138.0	7.7	744
Wet Bulb	21756971	399785	53.7	6.045	7439		.2	8.5	.5			744
Dew Point	14067618	318130	42.8	7.882	7439		73.6	2.0				744

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		
STATION	STATION NAME		YEARS	MONTH

PAGE 1   0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
78/ 77													.1					1	1		
76/ 75									.2	.1		.2						5	5		
74/ 73								.1	.1	.4	.3							9	9		
72/ 71								.2	.5	.5	.3	.2						17	17		
70/ 69						.2	.3	.8	.4	1.3	.3	.1						32	32		
68/ 67				.2	.5	.6	.4	1.5	1.0	.5								45	45		
66/ 65			.1		.9	.6	1.8	1.4	1.5	.2	.1							62	62		
64/ 63			.2	.5	.8	.6	1.8	2.9	1.2	.5	.1							81	81		
62/ 61		.5	.1	.9	1.6	1.6	2.3	1.4	.8	.3								88	88	4	
60/ 59		.5	.8	1.0	1.8	2.0	1.9	1.1	.2									87	87	27	6
58/ 57			.6	1.7	1.4	1.7	1.5	2.4	.5	.2								94	94	28	8
56/ 55		1.2	2.3	2.2	1.6	2.3	1.0	.4										101	101	76	12
54/ 53		1.7	3.1	1.5	2.3	1.2	.8	.4										102	102	111	32
52/ 51		1.5	2.8	2.0	1.3	1.3	.9	.1										92	92	141	44
50/ 49		1.3	1.9	.5	.8	1.1	.1											53	53	162	54
48/ 47		.2	1.1	.6	.3	.4	.3											28	28	129	83
46/ 45		.4	1.0	.3	.9		.1											25	25	109	93
44/ 43		.4	.2															6	6	55	105
42/ 41		.1																1	1	46	73
40/ 39		.1																1	1	27	84
38/ 37																				13	91
36/ 35																				2	76
34/ 33																					50
32/ 31																					19
30/ 29																					35
28/ 27																					31
26/ 25																					19
24/ 23																					6
22/ 21																					4
20/ 19																					5
TOTAL		8.7	15.3	11.2	14.4	13.5	14.1	10.9	6.1	4.0	1.2	.5	.1					930	930	930	930

Element (X)	$\Sigma_X{}^2$	Σ_X	$\overline{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	±32 F	>67 F	>73 F	>80 F	>93 F	Total
Rel. Hum.	3282599	52381	56.3	18.913	930							
Dry Bulb	3182146	54040	58.1	6.725	930			10.9	1.5			93
Wet Bulb	2288804	45914	49.4	4.870	930							93
Dew Point	1630357	38277	41.2	7.691	930		11.9					93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC FORM JUL 64 0-26.5 (OL A)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

| 24112 STATION | MALMSTROM AFB MT/GREAT FALLS — STATION NAME | 68-77 — YEARS | AUG MONTH |

PAGE 1   0300-0500 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
74/ 73									.2	.1	.2							5	5		
72/ 71							.1		.4	.2	.1							8	8		
70/ 69							.2	.4	.1	.2								9	9		
68/ 67					.1		.2	.2	.1	.2								8	8		
66/ 65					.6	.9	1.0	.8	.9	.2								40	40		
64/ 63			.2	.5	.4	1.5	.9	1.3	1.0									54	54		
62/ 61			.3	.5	1.1	.6	1.3	1.4	.6									55	55		
60/ 59		1.0	.6	1.5	1.3	2.0	1.7	1.4	.2									91	91	12	3
58/ 57		.4	.8	1.4	1.6	2.4	1.4	.4										78	78	24	5
56/ 55		2.3	1.9	2.6	2.7	2.8	1.4	.6										133	133	54	13
54/ 53		2.0	1.6	1.9	2.8	2.4	.4	.3										107	107	82	25
52/ 51	.1	2.0	3.0	1.9	3.0	1.0	.1	.2										106	106	93	42
50/ 49	.2	1.6	5.3	1.1	1.3	1.5	.3											105	105	141	51
48/ 47		1.2	1.7	1.3	.9	.6												53	53	152	80
46/ 45		1.2	.9	1.0	.9	.5												41	41	145	80
44/ 43		.5	.6	.9	.2													21	21	94	103
42/ 41		.5	.1	.1	.1													8	8	61	87
40/ 39		.8		.1														8	8	42	77
38/ 37																				24	99
36/ 35																				5	78
34/ 33																				1	69
32/ 31																					42
30/ 29																					28
28/ 27																					22
26/ 25																					13
24/ 23																					7
22/ 21																					3
20/ 19																					3
TOTAL	.3	13.5	17.1	14.8	17.0	16.2	9.0	7.1	3.5	1.0	.3							930	930	930	930

Element (X)	Σx'	Σx	x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3803745	57079	61.4	17.985	930							
Dry Bulb	2850782	51154	55.0	6.319	930			3.0	.5			93
Wet Bulb	2148459	44465	47.8	4.922	930							93
Dew Point	1599720	37968	40.8	7.310	930		11.8					93

24112	MALMSTROM AFB MT/GREAT FALLS	08-77		AUG
STATION	STATION NAME		YEARS	MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
82/ 81												.1		.1				2	2		
80/ 79										.1	.1	.1						3	3		
78/ 77								.1	.2		.3	.3	.3					12	12		
76/ 75						.1			.2	.5	.2		.1					11	11		
74/ 73								.4	.4	.6	.5	.2						21	21		
72/ 71						.1	.1	.1	.3	.5	.4	.1						16	16		
70/ 69						.1	.9	1.1	1.0	.4								32	32		
68/ 67					.4	.5	.3	1.3	1.4	.2	.4							43	43		
66/ 65			.1	.1	.3	1.4	1.0	2.0	.6	.6	.1							59	59		
64/ 63			.1	.6	1.2	1.7	2.2	2.0	1.1	.1								84	84	3	
62/ 61		.4	.6	1.0	1.6	1.4	1.9	1.5	.6									85	85	9	2
60/ 59		.5	.6	1.8	2.0	1.8	1.3	.6	.2									84	84	22	6
58/ 57		.9	1.0	2.7	1.3	2.0	1.2	.1	.2									87	87	50	6
56/ 55		1.4	3.2	1.9	1.5	2.4	.5	.3										105	105	95	11
54/ 53		2.3	2.8	1.0	1.5	1.3	.3	.1										86	86	121	32
52/ 51		1.2	2.6	1.0	1.5	1.3	.2	.1										73	73	164	40
50/ 49	.1	1.3	3.0	1.1	.6	.3	.1											61	61	138	95
48/ 47		1.0	1.2	.4	.6	.3												33	33	115	105
46/ 45		1.1	.4	.1	.1	.2												18	18	98	89
44/ 43		.3	.4	.1	.1													9	9	56	96
42/ 41		.2	.1	.2														5	5	32	82
40/ 39																				20	95
38/ 37		.1																1	1	4	81
36/ 35																				3	68
34/ 33																					46
32/ 31																					30
30/ 29																					14
28/ 27																					17
26/ 25																					11
24/ 23																					3
22/ 21																					1
TOTAL	.1	10.6	16.2	12.0	12.9	14.9	10.1	9.9	6.3	3.2	2.2	.9	.4	.1				930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3442096	53792	57.8	18.868	930							
Dry Bulb	3264441	54653	58.8	7.529	930			14.0	4.9	.3		93
Wet Bulb	2363005	46659	50.2	4.875	930							93
Dew Point	1721519	39483	42.5	6.981	930		7.6					93

USAFETAC FORM JUL 64 0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
100/ 99																	.1	1	1		
96/ 95																.1		1	1		
94/ 93																	.1	1	1		
92/ 91														.1	.1		.1	3	3		
90/ 89															.5	.8	.4	16	16		
88/ 87														.6	.9	.1	.2	17	17		
86/ 85													.5	.4	1.0	.4		22	22		
84/ 83										.1		.6	.9	.8	1.2	.2		35	35		
82/ 81										.1	1.1	1.8	1.2	1.0	.3			51	51		
80/ 79								.2	.1	.1	1.1	1.1	2.2	.1				45	45		
78/ 77									.3	.8	2.4	1.5	.8	.2				55	55		
76/ 75							.1		.4	1.3	1.4	1.6	1.2	.3				59	59		
74/ 73						.1	.4	1.1	2.2	2.0	2.4	.8	.1					84	84		
72/ 71					.1	.3	.6	2.3	1.2	2.0	.5	.2	.4					72	72		
70/ 69					.1	.8	2.0	1.9	1.5	1.5	.4	.4						81	81		
68/ 67			.1		.3	.6	1.2	1.2	1.6	.3	.1	.1						52	52		
66/ 65			.1	.5	.8	1.3	1.7	.8	.6	1.3	.1							67	67	6	
64/ 63			.1	.9	1.0	1.4	.9	.8	1.0	.3								58	58	15	
62/ 61		.3	.1	.3	.9	.6	1.1	1.0	.4									44	44	64	1
60/ 59		.1	.3	1.3	1.2	1.2	.5	.1	.3									47	47	130	6
58/ 57			.2	1.1	1.0	.5	1.0	.5	.3									43	43	161	7
56/ 55		.3	.5	1.1	.6	.4												28	28	159	18
54/ 53		.8	1.1	.4	.2	.1												24	24	142	28
52/ 51		.6	.6	.3														15	15	89	48
50/ 49		.1	.3																4	82	106
48/ 47		.1	.3																4	53	111
46/ 45			.1															1	1	20	105
44/ 43																				9	93
42/ 41																					90
40/ 39																					97
38/ 37																					66
36/ 35																					56
34/ 33																					32
32/ 31																					19

Element (X)	Σx'	Σx	X̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

USAFETAC FORM 0-26-5 (OL A) JUL 64 — REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
30/ 29																					23
28/ 27																					19
26/ 25																					1
24/ 23																					3
22/ 21																					1
TOTAL		2.6	4.8	5.8	5.7	7.8	9.1	10.0	10.5	9.9	9.8	7.7	6.3	3.2	4.0	1.6	1.0	930	930	930	930
																		930		930	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1919925	38597	41.5	18.503	930							
Dry Bulb	4671315	65311	70.2	9.550	930			59.5	39.0	17.2	.3	93
Wet Bulb	2830750	51148	55.0	4.367	930							93
Dew Point	1777359	40169	43.2	6.753	930		6.6					93

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME	YEARS		MONTH

PAGE 1   **1200-1400**
HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
106/105																	.1	1	1		
102/101																	.3	3	3		
100/ 99																	.1	1	1		
98/ 97																	.8	7	7		
96/ 95																	.8	7	7		
94/ 93																.4	3.2	34	34		
92/ 91														.3	1.0	3.3		43	43		
90/ 89													.1	1.3	1.5	2.3		48	48		
88/ 87												.2	.4	.4	1.0	1.6	.8	41	41		
86/ 85												.4	.6	1.2	2.0	.9	.3	51	51		
84/ 83										.1	.3	.8	1.0	2.4	1.7	.1	.1	60	60		
82/ 81									.1	.2	.5	1.0	2.4	1.4	1.0	.3		64	64		
80/ 79									.5	.5	1.5	1.3	1.8	1.2	.1			65	65		
78/ 77								.3	.6	1.6	1.3	1.9	.4	.5	.1			64	64		
76/ 75							.3	.5	1.1	2.3	1.6	1.0	.5	.3				71	71		
74/ 73						.2	.1	.4	1.4	1.0	1.3	.4	.5	.1				51	51		
72/ 71						.1	.5	1.3	1.1	.9	1.3	.5	.2					55	55		
70/ 69				.1		.3	1.2	1.2	1.2	.9	1.0	.4						58	58		
68/ 67					.2	1.0	1.1	1.4	.4	.5	.3							46	46		
66/ 65					.4	.4	1.0	.8	.3	.5	.1							33	33	15	
64/ 63		.1		.3	.5	.6	.5	.5	.3	.4								32	32	42	
62/ 61		.2	.3	.2	.1	.5	.6	.4										23	23	87	1
60/ 59		.1	.1	.4	.8	.1	.2											16	16	168	5
58/ 57			.2	.3	.5	.1	.1											12	12	208	5
56/ 55		.2	1.1	.4	.2	.1												19	19	145	14
54/ 53		.5	.6	.1														12	12	101	26
52/ 51		.1	.6															7	7	86	35
50/ 49		.3																3	3	48	74
48/ 47			.3															3	3	22	89
46/ 45																				6	100
44/ 43																				2	85
42/ 41																					95
40/ 39																					98
38/ 37																					64

Element (X)	Σx²		Σx		x̄		σx		No. Obs.			Mean No. of Hours with Temperature					
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC   FORM JUL 64 0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME		YEARS	MONTH

PAGE 2   1200-1400
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
36/ 35																					76
34/ 33																					63
32/ 31																					32
30/ 29																					22
28/ 27																					28
26/ 25																					10
24/ 23																					2
22/ 21																					4
20/ 19																					2
TOTAL		1.6	3.3	1.9	2.8	3.5	5.7	6.9	7.1	8.9	9.2	8.0	8.0	7.6	7.5	5.8	12.0		930		930
																		930		930	

Element (X)	Σ_{x^2}	Σ_x	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1277955	30231	32.5	17.827	930							93
Dry Bulb	5582355	71369	76.7	10.653	930			77.0	61.1	39.3	5.3	93
Wet Bulb	2992330	52616	56.6	4.086	930							93
Dew Point	1654946	38650	41.6	7.239	930		10.0					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

PAGE 1   1500-1700 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
104/103																	.3	3	3		
100/99																	.8	7	7		
98/97																	1.0	9	9		
96/95																	1.8	17	17		
94/93																.2	4.8	47	47		
92/91															.1	1.1	4.4	52	52		
90/89														.3	.1	1.1	3.9	50	50		
88/87													.9	1.1	1.4	1.9	1.5	63	63		
86/85										.1		.1	.1	1.2	2.3	1.8	.6	58	58		
84/83											.6	.6	.6	2.4	1.3	.9	.1	61	61		
82/81								.2	.2	.2		1.5	1.5	1.2	.6	.2		53	53		
80/79						.2		.2	.2	.2	1.4	1.7	1.6	1.1	.9	.1		69	69		
78/77								.1	.3	.8	1.8	.9	1.5	.4				54	54		
76/75							.2	.8	1.2	1.1	1.6	.5	.3	.4				57	57		
74/73							.1	.5	1.4	1.7	1.5	.5	.3	.2				59	59		
72/71			.1	.1	.1	.9	1.2	.8	.3	1.1	.2	.2						46	47		
70/69					.1	.6	1.1	1.0	1.0	.4	1.2	.3	.2					55	56		
68/67						.1	.5	.8	.4	.2	.2							21	21		1
66/65			.1		.1	.4	1.2	.9	.4	.2	.1							32	32	19	
64/63		.3	1.1	.5	.4	.8		.2	.1	.1								33	33	39	
62/61			.1	.6	.4	1.0	.4	.1	.1	.1								27	27	87	4
60/59			.2	.3	.3	.2												10	10	173	3
58/57			.1	.1	.9		.1											11	11	224	5
56/55		.2	.6	.2	.3	.1												14	14	135	11
54/53		.4	.4	.1														9	9	110	27
52/51			.4	.2														6	6	67	41
50/49			.2															2	2	45	61
48/47		.1																1	1	17	52
46/45		.2																2	2	8	107
44/43																			3		82
42/41																					76
40/39																					93
38/37																					79
36/35																					75

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

WET BULB TEMPERATURE DEPRESSION (F)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS 68-77
STATION STATION NAME YEARS

AUG
MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
34/ 33																					73
32/ 31																					57
30/ 29																					31
28/ 27																					24
26/ 25																					10
24/ 23																					11
22/ 21																					3
20/ 19																					2
18/ 17																					1
TOTAL		1.3	2.3	2.8	2.8	3.0	5.3	5.5	6.3	5.5	9.9	6.5	7.3	8.3	6.7	7.3	9.3		930		928
																		928		928	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1142718	28042	30.2	17.850	928							
Dry Bulb	5826424	72906	78.4	10.930	930			78.3	65.9	45.6	8.3	93
Wet Bulb	3002689	52657	56.7	3.990	928			.1				93
Dew Point	1588161	37741	40.7	7.580	928		13.9					93

USAFETAC FORM JUL 64 0-26-5 (11L A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION — MALMSTROM AFB MT/GREAT FALLS STATION NAME — 68-77 YEARS — AUG MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101																	.1	1	1		
100/ 99																	.1	1	1		
96/ 95																	.3	3	3		
94/ 93																.2	.6	8	8		
92/ 91																.3	1.9	21	21		
90/ 89															.3	.9	1.0	20	20		
88/ 87													.3		1.2	1.6	.9	37	37		
86/ 85													.3	.6	1.4	1.1	.1	33	33		
84/ 83										.1	.1	.6	1.3	2.0	.3	.3		45	45		
82/ 81								.1		.3	.6	.6	1.0	2.5	1.1	.8		65	65		
80/ 79								.1	.1	.2	.8	1.1	2.0	1.3	.1	.1		54	54		
78/ 77								.2	.5	.9	1.4	2.5	.6	.5	.1			63	63		
76/ 75								.1	.8	.5	.5	1.4	1.0	.4				44	44		
74/ 73						.1	.2	1.0	1.4	2.2	1.4	1.0	.3					70	72		
72/ 71					.3		.4	1.1	1.2	1.7	1.2	.6	.2					63	63		
70/ 69				.1	.3	.4	.8	1.4	1.9	1.2	.3	.4	.1					65	66		
68/ 67					.4	.4	1.5	1.5	.9	.8	1.0							60	60	1	
66/ 65			.2		.3	.6	.8	.9	.9	.3	.5							42	42	3	
64/ 63		.4	.1	1.1	.9	1.4	.9	.8	.6	.3								60	60	23	
62/ 61		.6	1.1	.8	1.0	.4	.2	.5	.1									44	44	48	2
60/ 59			.9	1.3	1.5	.3	.2	.3	.1	.1								44	44	94	11
58/ 57		.3	.5	.5	.9	.2	.1		.1									25	25	179	4
56/ 55		.4	.3	.6	.5	.3	.1	.1										23	23	193	.9
54/ 53		.1	.2	.5	.2													10	10	144	45
52/ 51		.6	.6	.2	.2													16	16	106	39
50/ 49		.1	.3															4	4	59	58
48/ 47		.3																3	3	47	82
46/ 45		.3																3	3	23	90
44/ 43																				4	80
42/ 41																				3	75
40/ 39																					90
38/ 37																					73
36/ 35																					74
34/ 33																					63

Element (X)	Σx²		Σx		x̄		σx		No. Obs.			Mean No. of Hours with Temperature					
Rel. Hum.											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   AUG
STATION   STATION NAME   YEARS   MONTH

PAGE 2   1800-2000
HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
32/ 31																					38
30/ 29																					31
28/ 27																					30
26/ 25																					15
24/ 23																					9
22/ 21																					4
20/ 19																					3
18/ 17																					2
TOTAL		2.7	3.9	5.5	6.4	4.9	5.4	7.8	9.1	8.6	7.9	7.8	6.6	6.7	6.3	5.3	5.4	927	930	927	927

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1655371	34425	37.1	20.177	927			65.6	46.7	25.0	1.3	93
Dry Bulb	4991553	67451	72.5	10.348	930			65.6	46.7	25.0	1.3	93
Wet Bulb	2818739	50971	55.0	4.170	927			.1				93
Dew Point	1627499	38133	41.1	7.973	927		13.2					93

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME		YEARS	MONTH

PAGE 1   2100-2300
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
88/ 87	.															.1		1	1		
82/ 81											.1	.2		.2				5	5		
80/ 79									.1	.1		.3	.6	.1	.2	.1		15	15		
78/ 77										.1	.1	.3	.5	.2	.1			13	13		
76/ 75						.1				.3	.6	1.0		.2	.1			22	22		
74/ 73						.1	.3	.2	1.0	.5	1.5	.4	.5					43	43		
72/ 71							.3	.3	.5	.6	1.6	1.5	.2	.5				53	53		
70/ 69					.2	.4	.9	.8	1.7	3.0	1.0	.3						77	77		
68/ 67				.3	.6	1.0	1.0	1.3	1.5	1.4	.1	.1						68	69		
66/ 65			.1	.1	.4	2.3	1.8	1.6	1.4	.8	.6							85	86		
64/ 63		.2	.1	.4	1.1	1.8	1.4	2.6	1.1	.4								85	86	5	
62/ 61		.8	.2	.2	1.3	.6	1.7	1.3	1.0	.6								72	72	16	
60/ 59		.4	.9	2.2	1.6	1.7	1.4	1.1	.5	.1								92	92	31	8
58/ 57		.9	2.6	1.9	1.7	1.0	1.1	1.2										96	96	57	10
56/ 55		.8	1.3	2.3	1.3	.4	.6	.4	.1									67	67	122	12
54/ 53		.9	1.6	1.3	.8	.8	.4	.2										55	55	166	40
52/ 51		.9	.5	1.1	.2	.2	.2	.1										30	30	167	51
50/ 49		.9	.6	.2	.1	.6												23	25	138	62
48/ 47		.6	.6	.2	.3	.1												18	18	89	85
46/ 45		.5			.1	.1												7	7	64	95
44/ 43																				43	71
42/ 41																				16	78
40/ 39																				10	87
38/ 37																				3	70
36/ 35																					63
34/ 33																					66
32/ 31																					27
30/ 29																					29
28/ 27																					32
26/ 25																					21
24/ 23																					11
22/ 21																					5
20/ 19																					4

Element (X)	Σ_X^2			Σ_X		$\overline{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature					
												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																		
Dry Bulb																		
Wet Bulb																		
Dew Point																		

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)
JUL 64

USAFETAC

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME		YEARS	MONTH

PAGE 2   2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL		6.8	8.6	10.2	9.8	11.5	11.3	11.3	9.1	9.1	5.6	2.9	2.3	.8	.4	.2		927	930	927	927

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2647479	45907	49.5	20.099	927							
Dry Bulb	3714434	58348	62.7	7.602	930			29.8	9.9	1.4		93
Wet Bulb	2471538	47678	51.4	4.570	927							93
Dew Point	1646047	38329	41.3	8.133	927		12.9					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	YEARS	MONTH

PAGE 1 ALL HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
106/105																	.0	1	1		
104/103																	.0	3	3		
102/101																	.1	4	4		
100/ 99																	.1	10	10		
98/ 97																	.2	16	16		
96/ 95																.0	.4	28	28		
94/ 93																.1	1.1	90	90		
92/ 91														.0	.1	.3	1.2	119	119		
90/ 89														.1	.3	.5	.9	134	134		
88/ 87												.0	.2	.3	.6	.7	.4	159	159		
86/ 85										.0		.1	.2	.4	.8	.5	.1	164	164		
84/ 83										.0	.1	.3	.4	.8	.8	.2	.1	201	201		
82/ 81								.0	.0	.1	.3	.7	.8	.8	.4	.2		240	240		
80/ 79								.1	.1	.2	.6	.7	1.0	.5	.2	.0		251	251		
78/ 77								.1	.3	.5	.9	.9	.5	.2				262	262		
76/ 75							.1	.2	.6	.8	.8	.7	.3	.2				269	269		
74/ 73						.1	.1	.5	1.0	1.1	1.1	.4	.2	.0				342	344		
72/ 71			.0	.1	.1	.4	.8	.8	1.0	.8	.3	.2						330	331		
70/ 69				.0	.1	.4	.9	1.1	1.1	1.1	.5	.3	.0					409	411		
68/ 67			.0	.1	.3	.5	.8	1.1	.9	.5	.3	.0						343	344		
66/ 65			.1	.1	.5	1.0	1.3	1.1	.8	.5	.2							420	421	43	
64/ 63		.1	.1	.7	.8	1.2	1.2	1.4	.8	.3	.0							487	488	127	
62/ 61		.3	.3	.6	1.0	.9	1.2	.9	.5	.1								438	438	315	10
60/ 59		.3	.6	1.2	1.3	1.2	.9	.6	.2	.0								471	471	657	48
58/ 57		.4	1.0	1.2	1.1	1.0	.9	.3	.1									446	446	931	50
56/ 55		.8	1.4	1.4	1.1	1.1	.5	.2	.0									490	490	979	100
54/ 53		1.1	1.4	.9	1.0	.7	.2	.1										405	405	977	255
52/ 51	.0	.9	1.4	.8	.8	.5	.2	.1										345	345	913	340
50/ 49	.0	.7	1.5	.4	.3	.4	.1											255	255	813	561
48/ 47		.4	.7	.3	.3	.2	.0											143	143	624	687
46/ 45		.5	.3	.2	.2	.1	.0											97	97	473	759
44/ 43		.2	.2	.1	.0													36	36	266	715
42/ 41		.1	.0	.0	.0													14	14	158	656
40/ 39		.1	.0															9	9	99	721

Element (X)	Σx²		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		AUG
STATION	STATION NAME	YEARS		MONTH
			PAGE 2	ALL
				HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
38/ 37		.0																1	1	44	623
36/ 35																				10	566
34/ 33																				1	462
32/ 31																					264
30/ 29																					213
28/ 27																					203
26/ 25																					100
24/ 23																					52
22/ 21																					25
20/ 19																					19
18/ 17																					3
TOTAL	.1	6.0	8.9	8.0	9.0	9.4	8.8	8.7	7.3	6.3	5.8	4.3	3.9	3.3	3.1	2.5	4.7		7440		7432
																		7432	7432		

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	19171888	340454	45.8	21.937	7432							744
Dry Bulb	34083450	495232	66.6	12.265	7440			338.1	229.5	128.8	15.2	744
Wet Bulb	20916314	392108	52.8	5.550	7432			.2				744
Dew Point	13245608	308750	41.5	7.510	7432		88.0					744

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0000-0200 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
78/ 77													.1					1	1		
74/ 73												.1						1	1		
72/ 71											.2	.1						3	3		
70/ 69						.1					.2	.1						4	4		
68/ 67						.2	.1	.1		.3	.1	.1						9	9		
66/ 65						.3	.2	.4	.1	.2								12	12		
64/ 63						.2	.4	.3	.4	.2								15	15		
62/ 61				.2	.4	.6	.6	.7	.1									23	23		
60/ 59				.3	.6	.6	1.2	.3	.3									30	30		
58/ 57			.3	1.0	1.1	1.9	1.2	.2		.1								53	53	6	
56/ 55		.1	1.0	1.0	1.3	1.9	1.4	.3	.2									66	66	4	
54/ 53		.1	.7	1.3	2.1	1.9	.9	.2										65	65	24	
52/ 51			1.1	1.9	3.0	2.0	1.4											85	85	45	8
50/ 49		.3	1.2	3.0	3.0	1.2	.3											82	82	54	15
48/ 47			1.8	1.7	3.2	2.8	.7	.4										95	95	79	18
46/ 45			1.4	2.2	2.2	1.9	.8											77	77	111	39
44/ 43			1.8	2.2	2.1	1.1												65	65	114	52
42/ 41			1.0	1.3	1.8	.2												39	39	122	53
40/ 39			1.1	4.0	1.8													62	62	96	78
38/ 37	.3	1.0	2.2	.2														34	34	62	85
36/ 35	.2	.9	.3	.7														19	19	79	111
34/ 33	.4	.9	1.2	.1														24	24	39	85
32/ 31		.6	1.0	.1														15	15	16	94
30/ 29		1.1	.4															14	14	24	80
28/ 27		.2	.1															3	3	17	82
26/ 25		.3																3	3	6	40
24/ 23		.1																1	1	2	20
22/ 21																					33
20/ 19																					.6
18/ 17																					1
TOTAL	1.0	12.8	21.1	21.0	17.6	12.2	8.4	2.7	1.2	.9	.6	.4	.1					900	900	900	900

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3638677	55327	61.5	16.253	900							
Dry Bulb	2173933	43539	48.4	8.675	900		3.6	1.8	.2			90
Wet Bulb	1619360	37752	41.9	6.310	900		6.5					90
Dew Point	1126992	31234	34.7	6.919	900		35.6					90

24112 MALMSTROM AFB MT/GREAT FALLS 68-77 SEP

STATION / STATION NAME / YEARS / MONTH

PAGE 1 0300-0500 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
72/ 71											.1							1	1		
70/ 69											.1	.2						3	3		
68/ 67										.1								1	1		
66/ 65					.3	.3			.1	.2	.1							10	10		
64/ 63					.3	.4	.3		.3	.1								14	14		
62/ 61					.4	.4	.6	.4	.4									21	21		
60/ 59					.7	.1	.9	.4	.2									21	21		
58/ 57			.2	.8	1.1	.3	.9	.1										31	31	5	
56/ 55		.1	.4	1.8	.8	1.8	.9		.1	.2								55	55	5	
54/ 53			.6	1.1	1.8	1.4	.6		.1									50	50	15	
52/ 51		.1	.8	1.4	2.7	1.1	.4	.1										60	60	29	5
50/ 49		.1	2.2	2.9	2.6	1.2	.3											84	84	38	12
48/ 47		2.2	2.3	3.4	1.7	1.1	.1											98	98	58	16
46/ 45	.1	1.8	2.2	3.1	2.0	.7												89	89	115	42
44/ 43	.1	1.8	2.2	2.0	1.0													64	64	106	41
42/ 41		1.9	2.8	2.0	.4													64	64	114	62
40/ 39	.1	1.4	3.9	.9	.1													58	58	94	59
38/ 37	.2	1.0	3.2	1.0														49	49	85	88
36/ 35	.2	1.8	1.1	.8														35	35	73	117
34/ 33	.6	2.1	1.3	.2														38	38	56	83
32/ 31	.2	.9	1.3															22	22	48	87
30/ 29	.1	.9	.8															16	16	24	99
28/ 27		.8	.3															10	10	25	82
26/ 25		.3	.1															4	4	2	37
24/ 23		.2																2	2	7	30
22/ 21																				1	23
20/ 19																					10
18/ 17																					3
16/ 15																					4
TOTAL	1.7	17.4	25.9	21.4	15.9	9.0	5.0	1.1	1.3	.7	.3	.2							900	900	900
																		900		900	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	4040754	58596	65.1	15.847	900							
Dry Bulb	1988816	41594	46.2	8.602	900		5.4	.5				90
Wet Bulb	1525587	36595	40.7	6.467	900		10.7					90
Dew Point	1098237	30817	34.2	6.918	900		37.5					90

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
76/75												.1						1	1		
74/73								.1			.1	.1						3	3		
72/71									.2		.1							3	3		
70/69						.1				.3								4	4		
68/67					.1			.1	.2	.2	.2							8	8		
66/65					.2		.2	.1	.4	.1								10	10		
64/63				.1	.6	.1	.6	.8	.3	.7	.1							29	29		
62/61				.3	.3	.7	.7	1.0	.2									29	29		
60/59			.1	.4	.3	.7	.9	.7	.2	.2								32	32	1	
58/57			.2	1.1	.9	1.2	.9	.6	.1	.1								46	46	3	
56/55			.7	1.0	1.3	2.0	.8	.3										55	55	14	
54/53		.1	.2	1.3	2.1	2.1	1.1											63	63	20	4
52/51		.3	.6	1.9	3.1	1.6	.3											70	70	42	7
50/49		.2	2.2	2.3	1.6	1.3	.1											70	70	56	15
48/47		1.7	2.4	3.8	1.4	.3	.1											88	88	67	22
46/45		2.4	1.7	3.2	1.4	.2												81	81	122	25
44/43		2.8	2.2	2.0	.4													67	67	122	64
42/41		1.2	2.1	1.6	.9													52	52	116	64
40/39	.1	1.2	2.0	.7	.2													38	38	82	75
38/37	.1	.8	2.2	.4														32	32	63	107
36/35	.2	1.3	2.1	.4														37	37	46	100
34/33	.7	2.0	1.4	.1														38	38	57	89
32/31		.8	1.2	.1														19	19	38	76
30/29	.4	.8	.1															12	12	24	86
28/27		1.1																10	10	16	75
26/25	.1																	1	1	9	39
24/23		.1																1	1	1	21
22/21																					20
20/19	.1																	1	1	1	6
18/17																					4
16/15																					1
TOTAL	1.8	16.9	21.6	20.9	14.7	10.6	5.7	3.8	1.8	1.7	.6	.2							900	900	900
																		900	900		

Element (X)	Σx²	Σx	X̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3886735	57121	63.5	17.052	.900							
Dry Bulb	2151193	43197	48.0	9.308	.900		4.4	1.9	.4			90
Wet Bulb	1616301	37671	41.9	6.630	.900		8.9					90
Dew Point	1149581	31565	35.1	6.878	.900		32.8					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0900-1100
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
86/ 85															.1	.1		2	2		
82/ 81							.1			.1	.1	.1	.3					7	7		
80/ 79										.2	.1	.7	.3	.1				13	13		
78/ 77							.1	.1	.1	.1	.3	.6	.1	.1				14	14		
76/ 75									.2	.7	.9	1.1	.3					29	29		
74/ 73						.1		.1	.1	.3	.7	.9	.7					26	26		
72/ 71							.2	.2	.9	1.9	1.7	.4						48	48		
70/ 69						.1	.2	1.1	.3	2.2	.6	.6						46	46		
68/ 67							.2	.3	1.1	2.0	1.3	.7						51	51	1	
66/ 65						.2	.3		1.7	1.8	1.6	.4	.1					55	55		
64/ 63						.3	.6	1.1	1.7	1.4	.6		.2					53	53	1	
62/ 61					.1	.9	2.3	2.2	.8	.2								59	59	5	
60/ 59				.1	1.1	2.0	2.8	1.6	.4	.1	.1	.						74	74	11	1
58/ 57			.3	.6	1.0	2.8	1.6	.7	.1									63	63	25	
56/ 55			.2	.6	1.6	1.8	1.6	.6	.1									57	57	58	2
54/ 53			.1	.9	1.6	2.1	1.1	.2					.					54	54	86	2
52/ 51			.9	.8	1.1	1.0	.7	.3										43	43	116	6
50/ 49		.8	1.1	1.1	1.4	.9	.2											50	50	127	22
48/ 47		.7	1.7	.7	.8	.4												38	38	124	20
46/ 45		.9	.8	1.0	.9	.3	.2											37	37	95	55
44/ 43		.7	.4	.6		.1												16	16	78	63
42/ 41		.3	.2	.1	.2													9	9	63	77
40/ 39		.1	.6	.4														10	10	29	115
38/ 37		.1	.8	.2														10	10	18	120
36/ 35		1.1	.3															13	13	12	105
34/ 33		.6	.2	.1														8	8	27	74
32/ 31		.8	.4	.1														12	12	11	73
30/ 29		.2	.1															3	3	8	55
28/ 27	.																			5	56
26/ 25																					23
24/ 23																					10
22/ 21																					11
20/ 19																					5
18/ 17																					3

Element (X)	Σ_{x^1}			Σ_x			$\bar{x}$		σ_x		No. Obs.		Mean No. of Hours with Temperature					
													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
16/ 15																					2
TOTAL		6.2	8.2	7.2	10.4	13.6	14.1	11.8	8.1	7.9	5.1	3.8	2.3	.8	.3	.1			900		900
																		900		900	

Element (X)	$\Sigma_X{}^2$	Σ_X	$\overline{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2308096	42480	47.2	18.360	900							
Dry Bulb	3222386	52936	58.8	11.001	900		1.5	23.6	9.1	1.3		90
Wet Bulb	2062379	42697	47.4	6.397	900		2.4	.1				90
Dew Point	1249623	32997	36.7	6.657	900		23.8					90

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PAGE 1   **1200-1400** HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
96/ 95																		.1	1	1		
94/ 93																		.1	1	1		
92/ 91																		.2	2	2		
90/ 89																.1		.2	3	3		
88/ 87																.1		.2	3	3		
86/ 85												.2	.1	.1	.1	.1		.3	9	9		
84/ 83											.2	.1	.3	.1	.3	.7	.8		23	23		
82/ 81								.1				.6	.2	.4	.9	1.3	.4	.1	37	37		
80/ 79												.3	.4	1.7	1.1	.8	.1	.2	42	42		
78/ 77									.1	.1	.3	.8	2.8	.9	.4	.1			50	50		
76/ 75									.3	.4	1.4	2.9	.8	.3	.1				57	57		
74/ 73								.3	.6	1.0	1.9	1.1	.9	.2					54	54		
72/ 71							.1	.4	1.6	1.6	1.4	1.1	.4	.1					61	61		
70/ 69							.2	.6	1.8	1.4	.8	.9							51	51		
68/ 67								.7	2.0	1.3	1.0	.1	.1						47	47		
66/ 65						.2	.9	1.3	2.2	1.6	.4								60	60	6	
64/ 63					.1	.7	1.3	2.0	2.6	1.3	.1								73	73	3	
62/ 61			.1		.2	.4	1.1	1.4	1.0	.6	.1								45	45	12	
60/ 59			.1	.1	.3	.8	.9	1.2	1.6	.3									48	49	17	
58/ 57				.3	.2	.4	.4	1.0	.7	.1									29	29	43	1
56/ 55			.1	.6	.4		1.3	.7	.7										34	35	100	3
54/ 53			.4	.6	1.0	1.1	.7	.2	.1										37	37	161	2
52/ 51		.1	1.0	.7	.4	.6	.1												26	26	106	8
50/ 49		.2	.4	.3	.3	.2	.1												15	15	123	17
48/ 47		.1	.8	.2	.3	.4	.2												19	19	97	27
46/ 45		.2	.6	.4	.3	.1													15	15	51	32
44/ 43		.1	.1	.3	.3														8	8	67	60
42/ 41		.1		.2	.3														6	6	33	63
40/ 39			.7	.1	.1														8	8	16	84
38/ 37		.6	.7	.2															13	13	12	97
36/ 35			.9	.3	.2														13	13	22	104
34/ 33			.2	.4															6	6	14	104
32/ 31		.1																	1	1	10	66
30/ 29		.1																	1	1	5	72

Element (X)	Σ_{x^2}		Σ_x		$\bar{x}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME		YEARS	MONTH

PAGE 2   **1200-1400**
HOURS (L. S. T.)

Temp. (F)	\multicolumn{16}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
28/ 27																					66
26/ 25																					43
24/ 23																					13
22/ 21																					18
20/ 19																					15
18/ 17																					3
TOTAL		2.7	5.8	4.5	4.6	5.0	7.5	9.9	15.3	10.0	8.8	8.0	7.3	4.0	3.7	1.4	1.6	.898	900	898	898

Element (X)	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1504166	33076	36.8	17.852	.898							
Dry Bulb	3972879	58793	65.3	12.126	900		.2	44.1	28.2	10.1	.2	90
Wet Bulb	2244547	44525	49.6	6.413	.898		1.5					90
Dew Point	1171592	31800	35.4	7.121	.898		29.7					90

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   SEP

STATION   STATION NAME   YEARS   MONTH

PAGE 1   1500-1700 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
96/95																	.1	1	1		
94/93																	.2	2	2		
92/91																	.6	5	5		
90/89															.1		.1	2	2		
88/87														.2	.2	.2		6	6		
86/85										.2	.2	.1	.3	.6	.3		.3	19	19		
84/83											.3	.1	.7	.4	.4	.9	.3	29	29		
82/81											.3	.3	.6	.9	2.3	1.0	.2	51	51		
80/79										.1	.1	.7	.3	2.8	.8	.1	.1	45	45		
78/77										.8	.4	1.1	2.1	1.3	.7	.2		60	60		
76/75									.2	.7	.7	1.8	1.6	.7	.1	.1		52	52		
74/73								.2	.4	.9	1.3	1.2	1.1	.2				49	49		
72/71									.4	.9	1.3	.8	1.4	.4	.1			49	49		
70/69							.4		.4	1.6	1.3	1.8	1.3	.6				67	67		
68/67						.1		.2	.9	1.8	1.9	.8						51	51		
66/65								.9	.8	2.3	1.9	.7						60	60	3	
64/63					.3	.2	.8	1.7	1.2	1.1	.7	.2						56	56	4	
62/61							.3	.2	2.0	1.7	1.8							54	54	13	
60/59				.2	.4	.3	.4	.7	.4	.2	.2							27	27	30	
58/57			.1		.4	.3	.9	1.3	.1	.1								30	30	53	
56/55			.2	.4	.6	.7	.8	.2	.7									32	32	86	
54/53			.4	.6	.6	1.0	.6	.6	.1									34	34	150	
52/51		.2	.9	.6	.1	.4												20	20	114	13
50/49		.3	.4	.3	.1	.2	.2	.2										17	17	121	21
48/47			.1	.6	.8	.4	.3											20	20	95	20
46/45		.6	.1	.2	.6	.4	.1											18	18	77	35
44/43			.3	.1														4	4	46	58
42/41			.2	.2														4	4	20	58
40/39			1.1	.2														12	12	31	64
38/37		.3	.2	.1														6	6	12	62
36/35			.6	.9														13	13	27	83
34/33			.4															4	4	4	116
32/31	.1																	1	1	9	112
30/29																				5	70

Element (X)	Σx²		Σx		X̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
28/ 27																					71
26/ 25																					33
24/ 23																					23
22/ 21																					24
20/ 19																					26
18/ 17																					8
16/ 15																					3
TOTAL	.1	2.4	4.2	4.4	4.0	4.6	5.9	9.4	11.4	12.1	8.3	8.4	7.4	7.0	5.2	2.9	2.0	900	900	900	900

Element (X)	Σ_{X^2}	Σ_X	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	1334603	30757	34.2	17.758	900							
Dry Bulb	4142788	60054	66.7	12.281	900		.1	48.8	32.1	14.1	.3	90
Wet Bulb	2264820	44788	49.8	6.325	900		1.4					90
Dew Point	1119951	31019	34.5	7.522	900		37.0					90

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 1   1800-2000 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
92/ 91																	.2	2	2		
88/ 87																.1	.1	2	2		
86/ 85															.1			1	1		
84/ 83														.3				3	3		
82/ 81										.1	.1	.1	.1	.2				6	6		
80/ 79										.1	.2	.4	.4	.1				12	12		
78/ 77									.1	.1	.2	.2	.4	.2	.2			14	14		
76/ 75								.1	.6	.4	.3	.4	.3	.3				23	23		
74/ 73									.3	.4	.8	.8	1.3	.6				38	38		
72/ 71							.2	.2	.4	.6	1.0	.7	.2					30	30		
70/ 69							.2	.6	1.0	1.3	1.1	.7	.2					46	46		
68/ 67						.1	.3	1.3	.9	.9	.8	.2						41	41		
66/ 65						.3	.7	1.3	1.3	.9	.7	.1						48	48		
64/ 63				.2	.1	.2	.9	2.4	2.6	1.0	.2	.1						70	70		
62/ 61					.8	1.0	1.9	1.4	1.4	1.2	.1							71	71	5	
60/ 59				.2	.7	1.9	3.1	1.6	1.4	.1								81	81	16	
58/ 57			.1	.2	.7	1.4	2.1	1.7	.6									61	61	24	
56/ 55		.2	.3	.4	.6	1.2	2.6	.7	.2									56	56	44	
54/ 53			.8	.6	.6	1.7	1.2	.4	.3									50	50	76	2
52/ 51		.1	.9	1.0	1.7	.8	.4	.1										45	45	97	9
50/ 49		.6	.9	.2	.9	.6	.2											30	30	134	19
48/ 47		.3	.4	.4	1.9	.9	.3											39	39	110	33
46/ 45		1.0	.4	1.0	1.1	1.1												42	42	105	41
44/ 43			.9	.7	.3	.6												22	22	85	51
42/ 41		.2	.1	.3	.1													7	7	51	64
40/ 39		.4	1.1	.1	.2													17	17	51	64
38/ 37	.1	.1	.9	.2	.2													14	14	28	77
36/ 35		.4	.1	.1														6	6	30	83
34/ 33	.1	1.2	.6	.1														18	18	18	110
32/ 31		.2	.3															5	5	14	107
30/ 29																				10	57
28/ 27																				2	65
26/ 25																					42
24/ 23																					33

Element (X)	Σx²		Σx		X̄	σx		No. Obs.		Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 2 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
22/ 21						..															23
20/ 19																					13
18/ 17																					6
16/ 15																					1
TOTAL	.2	4.9	7.9	5.9	9.8	11.8	14.2	12.2	11.3	7.4	5.6	3.9	2.3	1.4	.6	.2	.3	.900	900	900	900

Element (X)	ΣX²	ΣX	X̄	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2082792	40002	44.4	18.414	900							
Dry Bulb	3221160	52920	58.8	11.035	900		.5	21.8	10.1	2.3		90
Wet Bulb	2007345	42101	46.8	6.494	900		2.6					90
Dew Point	1147053	31429	34.9	7.422	900		34.7					90

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION   MALMSTROM AFB MT/GREAT FALLS STATION NAME   68-77 YEARS   SEP MONTH

PAGE 1   2100-2300 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
78/ 77														.2				2	2		
74/ 73										.1		.3	.1					5	5		
72/ 71							.2	.1	.2	.1								6	6		
70/ 69							.2	.2	.1	.1	.7	.1						13	13		
68/ 67						.3	.2	.4	.3	.7	.1							19	19		
66/ 65					.2	.3	.4	.3	.9	.8								27	27		
64/ 63						.4	.4	1.2	.9	.8	.2							36	36		
62/ 61				.1	.6	.4	1.1	1.1	.7	.1								37	37		
60/ 59				.6	1.2	1.8	1.7	.8	.6		.1							60	60	4	
58/ 57			.3	.8	1.6	1.9	1.4	1.1	.1									65	65	6	
56/ 55		.1	.7	1.3	1.6	2.0	2.0	.9	.2									79	79	16	
54/ 53		.1	.3	1.7	1.6	2.7	2.6	.6										85	85	33	2
52/ 51		.3	.8	1.6	1.8	2.2	.6	.2										67	67	49	10
50/ 49		.3	1.3	2.7	2.3	2.3	.6	.2										88	88	97	19
48/ 47		1.6	2.0	1.7	1.1	.4	.3											64	64	105	18
46/ 45		.8	1.0	1.7	1.3	.2												45	45	111	49
44/ 43		.7	1.8	1.4	1.1	.1												46	46	124	55
42/ 41		.8	.8	1.3	.9													34	34	88	58
40/ 39		.6	2.1	.9	.6													37	37	76	74
38/ 37	.3	.8	1.0	.3														22	22	51	73
36/ 35		.6	.6	.2														12	12	53	105
34/ 33	.4	1.1	.9	.1														23	23	33	80
32/ 31		.6	1.1															15	15	21	95
30/ 29		.7	.1															7	7	13	70
28/ 27	.2	.3																5	5	18	81
26/ 25		.1																1	1	2	51
24/ 23																					19
22/ 21																					23
20/ 19																					17
18/ 17																					1
TOTAL	1.0	9.3	14.8	16.3	15.8	15.2	11.8	7.2	4.0	2.7	1.1	.4	.1	.2				900	900	900	900

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	3096325	50343	55.9	17.658	900							90
Dry Bulb	2465245	46339	51.5	9.395	900		2.8	4.5	.7			90
Wet Bulb	1739437	39139	43.5	6.447	900		5.4					90
Dew Point	1140865	31371	34.9	7.259	900		35.7					90

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 STATION — MALMSTROM AFB MT/GREAT FALLS (STATION NAME) — 68-77 YEARS — SEP MONTH

PAGE 1 — ALL HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
96/95																	.0	2	2		
94/93																	.0	3	3		
92/91																	.1	9	9		
90/89															.0		.0	5	5		
88/87														.0	.0	.0	.0	11	11		
86/85											.1	.0	.0	.1	.1	.1	.1	31	31		
84/83										.0	.1	.1	.1	.1	.1	.2	.0	55	55		
82/81							.0	.0			.1	.1	.2	.3	.5	.2	.0	101	101		
80/79										.0	.1	.2	.4	.6	.2	.0	.0	112	112		
78/77								.0	.0	.1	.1	.3	.8	.3	.2	.0		141	141		
76/75								.0	.2	.3	.4	.8	.4	.2	.0	.0		162	162		
74/73						.0	.1	.2	.4	.6	.6	.4	.1					176	176		
72/71							.1	.2	.5	.7	.7	.5	.1	.0				201	201		
70/69						.0	.2	.4	.6	.8	.7	.5	.1					234	234		
68/67							.1	.2	.6	.9	.8	.5	.1	.0				227	227	1	
66/65					.1	.3	.6	.8	1.1	.8	.3	.0						282	282	9	
64/63				.0	.2	.4	.7	1.3	1.2	.7	.2	.1						346	346	8	
62/61				.1	.4	.6	1.1	1.3	.8	.5	.0							339	339	35	
60/59			.0	.3	.7	1.0	1.5	.9	.7	.1	.1							373	374	79	1
58/57			.2	.6	.9	1.3	1.2	.8	.2	.1								378	378	165	1
56/55		.1	.5	.9	1.0	1.4	1.4	.5	.3	.0								434	435	327	5
54/53		.0	.4	1.0	1.4	1.8	1.1	.3	.1									438	438	565	12
52/51		.2	.9	1.2	1.7	1.2	.5	.1										416	416	598	66
50/49		.4	1.2	1.6	1.5	1.0	.3	.1										436	436	750	140
48/47		1.0	1.4	1.8	1.3	.6	.2											461	461	735	174
46/45	.0	1.1	1.1	1.6	1.2	.5	.0											404	404	787	318
44/43	.0	1.0	1.3	1.2	.5	.1												292	292	742	444
42/41		.7	1.0	.9	.4													215	215	607	459
40/39	.0	.6	1.9	.6	.2													242	242	475	613
38/37	.1	.6	1.4	.3	.0													180	180	331	709
36/35	.1	.9	.6	.4														148	148	342	80J
34/33	.3	1.1	.8	.1														159	159	248	741
32/31	.0	.5	.7	.0														90	90	167	710
30/29	.1	.5	.2															53	53	113	589

Element (X)	Σx²		Σx		x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

USAFETAC FORM 0-26-5 (A) JUL 64 — REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		SEP
STATION	STATION NAME	YEARS		MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
28/ 27	.0	.3	.1															28	28	83	578
26/ 25	.0	.1	.0															9	9	19	308
24/ 23		.1																4	4	10	169
22/ 21																				1	175
20/ 19	.0																	1	1	1	98
18/ 17																					29
16/ 15																					11
TOTAL	.7	9.1	13.7	12.7	11.6	10.2	9.1	7.3	6.8	5.4	3.8	3.2	2.5	1.7	1.2	.6	.5		7200		7198
																		7198		7198	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	21892148	367702	51.1	20.783	7198							
Dry Bulb	23338400	399372	55.5	12.835	7200		18.5	147.0	80.8	27.8	.5	720
Wet Bulb	15079776	325268	45.2	7.279	7198		39.4	.1				720
Dew Point	9203894	252232	35.0	7.123	7198		266.8					720

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFP MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0000-0200
HOURS (L. S. T.)

Temp (F)	_ WET BULB TEMPERATURE DEPRESSION (F) _ 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
66/ 65									.1	.1								2	2		
64/ 63									.2	.1	.1		.1					5	5		
62/ 61								.1	.1	.4	.1	.1						8	8		
60/ 59						.1			.5									7	7		
58/ 57						.5	.8	1.1	.3									25	25		
56/ 55				.1		.9	1.5	.5	.1									29	29		
54/ 53				.1	.3	1.2	1.7	.5										36	36		
52/ 51			.8	.2	.9	1.6	2.0	.2	.1									54	54		
50/ 49		.1		.9	2.2	1.4	.4	.1										47	47	4	
48/ 47			.1	1.1	2.8	1.3	.2	.1										52	52	20	
46/ 45			.4	2.3	3.0	1.1												63	63	33	5
44/ 43	.1	.9	.6	2.8	1.6	.5												61	61	73	6
42/ 41		.8	1.4	2.5	1.3		.1											56	56	85	7
40/ 39		1.2	2.3	1.9	1.3	.1												63	63	96	8
38/ 37		1.8	2.7	2.0	.3													64	64	91	28
36/ 35	.1	1.7	2.9	1.5	.2													60	60	93	49
34/ 33	.1	2.6	2.7	1.1	.2													62	62	74	81
32/ 31	.2	2.6	2.5	.4														53	53	96	95
30/ 29	.1	3.0	2.3	.5														55	55	65	111
28/ 27	.9	1.3	.6	.2														28	28	63	138
26/ 25	.6	2.2	.9	.2														36	36	34	94
24/ 23	.6	2.0	.2															27	27	42	81
22/ 21	.4	1.0	.2															15	15	30	64
20/ 19	.3	.3																6	6	12	47
18/ 17		.3																3	3	4	42
16/ 15		.3																3	3	4	27
14/ 13		.1																1	1	2	16
12/ 11		.1																1	1	1	8
10/ 9		.2																2	2	2	10
8/ 7																					5
6/ 5																					1
4/ 3		.3																3	3	1	1
2/ 1	.1																	1	1	3	
0/ -1																					1

Element (X)	Σx²			Σx			x̄	σₓ		No. Obs.		Mean No. of Hours with Temperature					
Rel. Hum.												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OC
STATION	STATION NAME		YEARS	MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-2/ -3	.1																	1	1	1	3
-4/ -5	.1																	1	1	1	2
TOTAL	3.9	22.8	20.5	17.8	14.1	8.7	6.8	2.8	1.5	.6	.2	.1	.1						930		930
																		930		930	

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.		Mean No. of Hours with Temperature						
							≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3919669	57969	62.3	18.159	930								
Dry Bulb	1583060	37070	39.9	10.654	930		.2	23.0					93
Wet Bulb	1152416	31948	34.4	7.689	930		.2	36.1					93
Dew Point	711540	24844	26.7	7.177	930		.6	74.6					93

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0300-0500 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
66/ 65									.1									1	1		
64/ 63					.		.1			.1	.1							3	3		
62/ 61					.	.1	.4	.3	.3									11	11		
60/ 59						.1	.1	.4	.2									8	8		
58/ 57					.4	.6	.3	.3										16	16		
56/ 55				.4	.8	.9	.3	.1										23	23		
54/ 53			.1	.2	1.2	1.2	.4											29	29		
52/ 51		.1	.2	.2	1.5	1.3	.4											35	35		
50/ 49			.1	.2	1.3	2.3	1.1											46	46	5	
48/ 47		.1	.3	1.4	2.0	1.2	.2											49	49	20	
46/ 45		.4	.1	2.4	2.8	1.5	.2											69	69	23	2
44/ 43		.9	.1	3.1	1.2	.3												52	52	57	4
42/ 41		.3	1.0	2.5	1.2	.3												49	49	65	12
40/ 39		1.5	.3	2.0	1.2													65	65	91	9
38/ 37		1.4	3.0	1.6	.8													63	63	93	22
36/ 35	.1	3.3	3.1	1.3	.2													77	77	93	39
34/ 33	.1	2.0	2.5	.9	.2													58	58	93	60
32/ 31	.5	2.7	2.0	1.2														60	60	89	93
30/ 29	.0	3.0	1.9	.4														59	59	79	124
28/ 27	1.1	1.8	.9	.3														38	38	59	150
26/ 25	.5	2.3	1.1	.1														37	37	44	91
24/ 23	1.5	1.4	.1															28	28	47	68
22/ 21	.5	1.9	.3															26	26	31	81
20/ 19	.2	1.1	.3															15	15	20	55
18/ 17		.3																3	3	9	38
16/ 15																			2		33
14/ 13																					23
12/ 11																					8
10/ 9		.3																3	3	2	1
8/ 7	.1																	1	1	2	4
6/ 5																					5
4/ 3																					2
2/ 1	.3																	3	3	3	
0/ -1	.2																	2	2	2	2

Element (X)	Σx²		Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME		YEARS	MONTH

PAGE 2 0300-0500
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-2/ -3	.1																	1	1	1	3
-4/ -5																					1
TOTAL	6.3	25.6	19.2	17.7	11.7	9.5	5.7	2.2	1.3	.6	.1							930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4174163	59875	64.4	18,539	930							93
Dry Bulb	1485325	35835	38.5	10,607	930	.3	27.6					93
Wet Bulb	1097453	31139	33.5	7,701	930	.3	39.0					93
Dew Point	687366	24422	26.3	7,040	930	.6	78.2					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
66/ 65									.1	.1		.1						3	3		
64/ 63								.3	.3	.3								9	9		
62/ 61							.1	.2	.3	.4	.1							11	11		
60/ 59								.4	.3	.4	.2							13	13		
58/ 57					.1	.5	1.4	.3	.2									24	24		
56/ 55					.2	.8	.8	.3	.5									24	24		
54/ 53				.1	.2	1.2	.6	.5	.1									26	26		
52/ 51					.9	1.5	1.1	.3										35	35		
50/ 49				.4	1.4	1.6	.6	.3										41	41	9	
48/ 47			.3	1.1	2.3	1.4	.3											50	50	22	
46/ 45		.5	.5	1.2	3.7	1.2	.1											67	67	31	
44/ 43		1.2	.3	2.2	1.7	.3												53	53	60	1
42/ 41		.4	1.0	2.8	1.3	.2												53	53	70	11
40/ 39		.6	3.3	1.7	1.2	.3												67	67	77	16
38/ 37		2.2	2.7	1.5	.8													66	56	92	25
36/ 35	.1	2.3	2.3	.9	.1													52	52	108	44
34/ 33	.1	3.2	2.2	.9	.2													61	61	71	54
32/ 31	.6	4.0	1.8	1.1														70	70	93	117
30/ 29	.4	3.0	.9	.8														47	47	82	108
28/ 27	1.4	2.2	.8	.3														43	43	53	156
26/ 25	1.0	1.3	.6															27	27	45	88
24/ 23	1.3	2.4	.1															35	35	34	65
22/ 21	.8	.9																15	15	33	74
20/ 19	.9	1.2																19	19	18	54
18/ 17	.2	.2	.1															5	5	10	45
16/ 15	.1	.2																3	3	3	29
14/ 13		.2																2	2	3	16
12/ 11																				1	8
10/ 9		.1																1	1		6
8/ 7																				1	2
6/ 5	.1																	1	1	1	1
4/ 3	.1	.1																2	2	1	2
2/ 1	.1	.1																2	2	3	2
0/ -1	.2																	2	2	2	1

Element (X)	\multicolumn{2}{c}{Σx²}		\multicolumn{2}{c}{Σx}	X̄	σx	No. Obs.	\multicolumn{6}{c}{Mean No. of Hours with Temperature}	
Rel. Hum.									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC FORM 0-26-5 (OLA) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	OCT
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0600-0800 HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-2/ -3	.1																	1	1	1	2
-4/ -5																					1
-6/ -7																					2
TOTAL	7.5	26.2	16.9	14.8	14.0	9.0	5.5	2.7	2.0	1.1	.1	.1							930		930
																		930		930	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4173460	59620	64.1	19.448	930							93
Dry Bulb	1530265	36277	39.0	11.135	930	.3	27.5					93
Wet Bulb	1119160	31410	33.8	7.923	930	.3	39.0					93
Dew Point	697316	24608	26.5	7.051	930	.6	77.9					93

24112 **STATION** — MALMSTROM AFB MT/GREAT FALLS **STATION NAME** — 68-77 **YEARS** — OCT **MONTH**

PAGE 1 — 0900-1100 **HOURS (L. S. T.)**

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
80/ 79														.1				1	1		
78/ 77													.2	.1				3	3		
76/ 75											.1	.2		.4	.1			8	8		
74/ 73											.1	.3	.6					10	10		
72/ 71											.1	.8	.2					10	10		
70/ 69									.1	.3	1.7	.5	.1					26	26		
68/ 67									.3	.5	1.3	.1						21	21		
66/ 65								.3	1.2	.9	.6							28	28		
64/ 63								.5	1.9	.6	.4							33	33		
62/ 61							.2	1.0	1.5	.3	.1							29	29		
60/ 59				.1	.1	1.0	1.7	1.0	.1									37	37		
58/ 57				.2	.6	1.8	1.4	.2	.6									46	46		
56/ 55			.1	.2	2.4	1.1	1.0	.2										46	46	1	
54/ 53			.1	.5	1.8	2.3	.5	.1										50	50	9	
52/ 51				.2	.5	3.0	1.8	.3										55	55	27	
50/ 49		.3	.3	1.4	1.8	1.1	.1											47	47	68	
48/ 47		.1	.6	1.7	2.0	1.2	.1											54	54	75	
46/ 45		.5	.4	1.2	3.2	.8	.5											62	62	91	3
44/ 43		.5	.5	2.0	1.3	1.2	.1											53	53	69	4
42/ 41		.6	1.2	1.1	.6	1.0	.1											43	43	86	10
40/ 39		.6	1.7	1.9	1.1	.4												54	54	92	30
38/ 37		1.8	1.3	.8	.5	.1												42	42	99	21
36/ 35	.1	1.3	1.4	.3	.2													31	31	71	93
34/ 33	.2	1.3	.9	.3	.1													26	26	58	90
32/ 31	.5	1.4	.8	.5	.1													31	31	59	112
30/ 29	.4	1.1	.8	.1														22	22	36	117
28/ 27	.5	1.1	.4															19	19	29	134
26/ 25	.5	.8	.1															13	13	20	93
24/ 23	.4	.6																10	10	17	58
22/ 21	.1	.2	.1															4	4	4	43
20/ 19	.4	.3																7	7	7	40
18/ 17																			3		35
16/ 15		.3																3	3	1	17
14/ 13	.1	.1																2	2	4	13

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 2   0900-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
12/ 11		.1																1	1	1	6
10/ 9		.2																2	2	1	6
8/ 7																			1	1	2
6/ 5																					2
TOTAL	3.4	13.0	10.0	9.7	11.9	15.3	11.2	7.0	6.6	3.4	4.5	1.9	1.2	.6	.1			929	930	929	929

Element (X)	Σ_{x^2}	Σ_x	$\overline{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2811498	47208	50.8	21.085	929							
Dry Bulb	2310446	44768	48.1	12.934	930		11.5	7.9	2.2	.1		93
Wet Bulb	1479201	36353	39.1	7.814	929		18.3					93
Dew Point	786497	26333	28.3	6.571	929		67.9					93

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 — STATION   MALMSTROM AFB MT/GREAT FALLS — STATION NAME   68-77 — YEARS   OCT — MONTH

PAGE 1   1200-1400 HOURS (L. S. T.)

Temp. (F)	| WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
82/ 81														.2	.5	.2		9	9		
80/ 79													.2	.1	.4	.2		9	9		
78/ 77												.1		.2	1.3	.6		21	21		
76/ 75													.2	.9	1.0			19	19		
74/ 73											.3	.8	1.0	.5				24	24		
72/ 71										.2	.4	1.3	.4	.1				23	23		
70/ 69										1.4	1.5	1.4	.3					43	43		
68/ 67									.3	2.0	.8	.3	.1					33	33		
66/ 65							.6	.6	1.8	.6	.6							41	41		
64/ 63						.1		.5	1.2	1.6	.8	.3						42	42		
62/ 61						.2	.6	.5	1.7	.5	.3	.1						38	38		
60/ 59						.1	.6	1.7	1.5	.4								41	41		
58/ 57					.2	.1	.9	2.9	.5	.3								46	46		
56/ 55					.5	1.4	2.9	2.3	.6	.1								73	73	10	
54/ 53				.1		.2	1.0	2.9	2.5	.4								66	66	21	
52/ 51					.5	.9	3.8	1.3	.1									61	61	77	
50/ 49				.1	1.1	1.7	1.4	.3										43	43	95	
48/ 47			.2	.4	.9	1.2	1.3											37	37	65	
46/ 45		.3	.8	1.0	1.3	1.2	.6	.3										51	51	89	
44/ 43			.6	1.1	.6	.3	.5											30	30	99	3
42/ 41		.4	.5	.3	.6	.5	.3											26	26	104	10
40/ 39		.2	1.4	.6	.3	.2	.1											27	27	107	27
38/ 37		.9	1.1	.2	.4													24	24	63	39
36/ 35		.3	1.0	.5														17	17	51	52
34/ 33	.3	.5	.4	.8														19	19	31	87
32/ 31	.4	1.1	.1	.3														18	18	34	115
30/ 29	.2	1.1	.1															13	13	34	118
28/ 27	.1	1.4	.2	.2														18	18	22	126
26/ 25	.1	.6	.2															9	9	10	99
24/ 23																				8	78
22/ 21																				1	45
20/ 19		.3																3	3	2	52
18/ 17		.3																3	3	1	28
16/ 15		.2																2	2	3	22

Element (X)	Σx^2		Σx		$\bar{x}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC   FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
14/ 13		.1																1	1	2	9
12/ 11																				1	5
10/ 9																					6
8/ 7																					5
4/ 3																					3
2/ 1																					1
TOTAL	1.2	7.8	6.7	5.7	6.8	8.8	16.1	13.1	7.1	8.5	4.7	5.2	3.0	3.2	1.6	.4		930	930	930	930

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1942652	38122	41.0	20.224	930							
Dry Bulb	2885401	50277	54.1	13.422	930		6.7	18.1	8.2	1.0		93
Wet Bulb	1671044	38802	41.7	7.491	930		11.8					93
Dew Point	760833	25859	27.8	6.709	930		71.2					93

24112 STATION — MALMSTROM AFB MT/GREAT FALLS — STATION NAME — 68-77 YEARS — OCT MONTH

PAGE 1 — 1500-1700 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/83															.1			1	1		
82/81															.3			3	3		
80/79													.2	.2	.9	.1		13	13		
78/77													.3	1.0	.5			17	17		
76/75											.3	.1	1.2	1.1				25	25		
74/73											.5	.5	.9	.2				20	20		
72/71										.3	.8	.9	.5					23	23		
70/69										.6	1.9	.5	.2					31	31		
68/67									.4	1.3	1.4	.5	.1					35	35		
66/65								.6	1.4	2.2	1.2	.4						54	54		
64/63							.1	.6	1.0	1.6	.9	.3						42	42		
62/61							.4	.5	1.5	.6		.2						31	31		
60/59					.1	.1	.5	1.7	1.7	.2	.2							43	43		
58/57						.5	1.3	1.9	1.5	.4								53	53		
56/55				.1	.2	.9	2.0	2.2	.5									55	55	9	
54/53				.1	.3	1.5	1.8	2.7	.5									65	65	22	
52/51				.3	.4	1.2	2.6	1.3	.2									56	56	68	
50/49			.2	.5	.6	1.3	2.6	.5										54	54	92	
48/47		.1	.2	1.1	.8	2.9	.8											54	54	76	
46/45		.1	.3	1.0	1.2	1.8	.4	.2										47	47	87	
44/43		.1	.6	.4	.4	.6	.6											27	27	100	6
42/41		.6	.9	.2	.8	.1	.4	.1										29	29	93	8
40/39		.8	1.0	.9	.5	.3												32	32	104	26
38/37		.3	.1	.4	.6													14	14	81	42
36/35		.5	1.0	.4	.2													20	20	44	60
34/33	.2	1.1	.6	.5	.1													24	24	30	89
32/31	.1	.9	.5															14	14	39	109
30/29	.3	.3	.3	.1														10	10	33	94
28/27	.2	1.7	.3	.1														22	22	21	105
26/25	.1	.3																4	4	11	105
24/23	.1	.2																3	3	9	83
22/21																			2	2	71
20/19		.2																2	2	1	41
18/17		.1																1	1	2	34

Element (X)	Σx²			Σx			X̄		σx		No. Obs.		≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

Mean No. of Hours with Temperature

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 2 **1500-1700**
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
16/ 15		.4	.1															5	5	3	21
14/ 13					.															2	14
12/ 11		.1																1	1		7
10/ 9																				1	9
6/ 5																					1
4/ 3																					2
2/ 1																					2
0/ -1																					1
TOTAL	1.1	8.0	6.2	6.2	6.3	11.3	13.7	12.5	8.8	7.3	7.2	3.5	3.4	2.5	1.8	.1		930	930	930	930

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_R	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	1921604	37948	40.8	20.042	930							93
Dry Bulb	2861303	50075	53.8	13.329	930		6.2	16.8	7.9	.9		93
Wet Bulb	1659333	38655	41.6	7.529	930		12.4					93
Dew Point	750279	25619	27.5	6.925	930	.1	69.9					93

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION MALMSTROM AFB MT/GREAT FALLS STATION NAME 68-77 YEARS OCT MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
74/ 73													.1					1	1		
72/ 71											.2	.1	.3					6	6		
70/ 69											.3	.4						7	7		
68/ 67									.1	.2	.2							5	5		
66/ 65								.1	.1	.4	.5							11	11		
64/ 63								1.3	1.2	.4	.1							28	28		
62/ 61							.3	1.1	1.7	.9	.1							38	38		
60/ 59						.1	.5	1.2	1.3	.2								31	31		
58/ 57						.3	2.2	1.1	.3	.1								37	37		
56/ 55				.1	.2	1.4	1.2	1.4	.6	.1								47	47		
54/ 53			.1		1.4	2.0	1.5	.5	.2	.1								55	55		
52/ 51				.1	.9	2.2	1.4	1.1	.1									53	53	7	
50/ 49			.1	.8	1.6	1.8	1.3	.3										55	55	30	
48/ 47		.1	.6	1.1	1.8	2.5	1.1											67	67	49	
46/ 45		.2	1.1	.6	3.2	1.8	.4											69	69	89	1
44/ 43		.2	1.0	2.9	1.7	1.4												67	67	88	3
42/ 41		.5	1.1	1.8	1.3	.8	.1											52	52	90	6
40/ 39		1.4	2.4	2.2	.6	.3	.1											65	65	88	17
38/ 37			1.2	.8	1.5	.8	.5											44	44	122	43
36/ 35			.9	1.4	1.2	.5												37	37	93	53
34/ 33	.1	1.6	.9	1.1	.6													40	40	55	104
32/ 31	.3	1.6	.6	.4	.2													30	30	59	115
30/ 29		1.0	.5	.2														16	16	48	79
28/ 27	.4	1.7	.3															23	23	42	123
26/ 25	.1	1.5	.4															19	19	25	93
24/ 23	.1	1.0																10	10	21	72
22/ 21	.3	.2																5	5	11	70
20/ 19		.1																1	1	1	58
18/ 17		.1																1	1	1	32
16/ 15	.1	.3																4	4	5	22
14/ 13																					10
12/ 11	.1	.1																2	2	2	7
10/ 9		.1																1	1		16
8/ 7	.1																	1	1	2	1

Element (X)	Σx'			Σx			x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																			
Dry Bulb																			
Wet Bulb																			
Dew Point																			

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1800-2000
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
6/ 5	.1																	1	1	1	1
4/ 3	.1																	1	1	1	1
2/ 1																					2
0/ -1																					1
TOTAL	1.9	13.9	11.3	14.0	14.9	15.2	10.1	8.1	5.7	2.5	1.5	.5	.4					.930	930 930	930	930

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2907409	48795	52.5	19.333	930							
Dry Bulb	2053565	42415	45.6	11.324	930		11.5	1.9	.1			93
Wet Bulb	1363539	34941	37.6	7.393	930		21.9					93
Dew Point	738019	25391	27.3	6.944	930	.1	70.3					93

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
68/ 67												.3						3	3		
66/ 65										.1	.1							2	2		
64/ 63								.1	.2		.1	.1	.2					7	7		
62/ 61								.9	.3		.1							12	12		
60/ 59						.1	.4	1.0	.6									20	20		
58/ 57						.3	.5	1.2	.6									25	25		
56/ 55					.1	1.1	1.7	1.0										36	36		
54/ 53			.1		.6	1.4	1.3	.3	.1									37	37		
52/ 51			.2	.3	1.4	2.3	1.3	.3										54	54		
50/ 49			.1	.4	2.7	1.3	.4	.1										47	47	4	
48/ 47				1.6	2.6	1.3	1.1											61	61	27	
46/ 45			.6	1.3	2.8	1.0	.1											54	54	46	2
44/ 43		.4	.8	2.5	2.7	1.2												70	70	81	1
42/ 41	.2	.4	1.6	2.5	1.8	.3												64	64	95	8
40/ 39		1.2	1.9	2.3	1.2													61	61	78	10
38/ 37	.1	1.7	2.4	1.6	1.1													64	64	101	33
36/ 35	.4	1.8	3.0	1.5	.4	.1												68	68	111	55
34/ 33	.1	1.7	1.6	1.6	.3													50	50	73	93
32/ 31	.3	2.2	1.9	.6	.5													52	52	80	103
30/ 29		3.0	1.4	.5	.1													47	47	61	111
28/ 27	.6	1.4	.6															25	25	59	121
26/ 25	.3	1.6	.5	.1														24	24	39	86
24/ 23	.5	1.4	.1															19	19	32	68
22/ 21	.5	.9																13	13	23	67
20/ 19		.2																2	2	7	68
18/ 17																					40
16/ 15		.4																4	4	3	18
14/ 13		.2																2	2	2	14
12/ 11		.1																1	1	2	8
10/ 9																					13
8/ 7																					3
6/ 5																					2
4/ 3	.1	.1																2	2	1	1
2/ 1	.3	.1																4	4	4	

Element (X)	Σx²			Σx		x̄	σx		No. Obs.	Mean No. of Hours with Temperature
										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

24112 STATION   MALMSTROM AFB MT/GREAT FALLS (STATION NAME)   68~77 YEARS   OCT MONTH

PAGE 2   2100~2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
0/ -1																				1	
-2/ -3																					4
-4/ -5																					1
TOTAL	3.7	18.9	17.0	16.9	18.5	10.3	6.9	4.8	1.9	.1	.3	.4	.2						930		930
																		930		930	

Element (X)	Σ_{X^2}	Σ_X	$\overline{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3635243	55541	59.7	18.509	930							
Dry Bulb	1687540	38366	41.3	10.621	930		19.5	.3				93
Wet Bulb	1201988	32704	35.2	7.477	930	.1	31.4					93
Dew Point	717541	24981	26.9	7.076	930	.5	72.8					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH
			PAGE 1	ALL
				HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
84/83															.0			1	1		
82/81														.0	.1	.0		12	12		
80/79													.1	.1	.2	.0		23	23		
78/77												.0	.1	.3	.1			41	41		
76/75											.1	.1	.2	.3	.0			52	52		
74/73												.1	.2	.3	.1			55	55		
72/71										.1	.2	.4	.2	.0				62	62		
70/69									.0	.3	.7	.4	.1					107	107		
68/67									.1	.5	.5	.2	.0					97	97		
66/65								.2	.5	.7	.4	.1						142	142		
64/63							.0	.4	.8	.6	.3	.1	.0					169	169		
62/61						.0	.2	.6	.9	.4	.1	.1						178	178		
60/59					.0	.1	.5	1.0	.9	.2	.0							200	200		
58/57					.1	.4	1.2	1.3	.5	.2								272	272		
56/55				.1	.2	1.2	1.5	1.1	.3	.0								333	333	20	
54/53			.0	.1	.5	1.4	1.7	1.0	.2	.0								364	364	52	
52/51			.1	.2	.7	1.8	1.9	.7	.1									403	403	179	
50/49		.0	.1	.5	1.5	1.7	1.1	.2										380	380	307	
48/47		.0	.2	1.0	1.9	1.7	.8	.0										424	424	354	
46/45		.3	.5	1.4	2.6	1.3	.3	.1										482	482	489	13
44/43	.0	.5	.6	2.1	1.4	.7	.2											413	413	527	28
42/41	.0	.5	1.1	1.7	1.1	.4	.1	.0					⁞					372	372	688	72
40/39		.9	2.0	1.7	.9	.2	.0											434	434	733	143
38/37	.0	1.4	1.7	1.2	.7	.1												381	381	742	253
36/35	.1	1.5	2.0	1.0	.2	.0												362	362	664	445
34/33	.2	1.8	1.5	.9	.2													340	340	485	657
32/31	.4	2.0	1.3	.6	.1													328	328	549	859
30/29	.3	1.9	1.0	.3	.0													269	269	438	862
28/27	.7	1.6	.5	.1														216	216	354	1053
26/25	.4	1.3	.5	.1														169	169	228	749
24/23	.6	1.1	.1															132	132	210	573
22/21	.3	.6	.1															78	78	135	515
20/19	.2	.5	.0															55	55	68	415
18/17	.0	.2	.0															16	16	30	294

Element (X)	Σx^2		Σx		$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bull														
Dew Point														

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		OCT
STATION	STATION NAME	YEARS		MONTH

PAGE 2 ALL HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
16/ 15	.0	.3	.0															24	24	24	189
14/ 13	.0	.1																8	8	15	115
12/ 11	.0	.1																6	6	8	57
10/ 9		.1																9	9	6	67
8/ 7	.0																	2	3	6	22
6/ 5	.0																	2	2	2	13
4/ 3	.0	.1																8	8	4	12
2/ 1	.1	.0																10	10	13	7
0/ -1	.1																	4	4	5	6
-2/ -3	.0																	3	3	3	12
-4/ -5	.0																	1	1	1	5
-6/ -7																					2
TOTAL	3.6	17.0	13.5	12.9	12.3	11.0	9.5	6.6	4.4	3.0	2.3	1.5	1.0	.8	.4	.1		7439	7440 / 7439	7439	7439

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	25485698	405078	54.5	21.468	7439							744
Dry Bulb	16396905	335083	45.0	13.247	7440	.8	134.1	45.0	18.4	2.0		744
Wet Bulb	10744134	275948	37.1	8.263	7439	.9	209.9					744
Dew Point	5849391	202057	27.2	6.968	7439	2.5	582.8					744

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0000-0200
     HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dr. Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
60/ 59										.1								1	1		
58/ 57								.1	.2									3	3		
56/ 55							.7	.3	.1	.1								11	11		
54/ 53					.2	.2	.6	.1	.4									14	14		
52/ 51						.8	.7	.4										17	17		
50/ 49				.3	.8	.6	.7	.6										26	26		
48/ 47			.2		.9	.9	.7	.2										26	26		
46/ 45			.1	1.1	1.7	1.7	.2											43	43	4	
44/ 43			.7	.8	2.1	1.4	.1											46	46	14	
42/ 41		.3	.7	2.0	1.6	.3	.2											46	46	33	
40/ 39		.3	1.1	1.9	1.6	1.3												56	56	44	1
38/ 37		.6	.6	2.1	.8	.3												39	39	53	6
36/ 35	.1	.4	1.4	2.2	1.0	.2												49	49	79	9
34/ 33	.3	1.4	2.1	1.9	.4													56	56	62	37
32/ 31		1.4	2.6	1.8														52	52	70	33
30/ 29	.1	2.7	2.2	1.0	.1													55	55	79	42
28/ 27	1.6	2.4	3.4	.2														69	69	80	70
26/ 25	1.0	3.0	1.4	.1														50	50	72	83
24/ 23	1.0	1.2	1.4															33	33	68	74
22/ 21	.6	1.6	1.0															28	28	31	88
20/ 19	.6	2.2	.2															27	27	39	70
18/ 17		1.2																11	11	22	61
16/ 15	.3	1.0	.1															13	13	16	72
14/ 13	.7	1.6	.2															22	22	16	57
12/ 11	.9	1.7	.1															24	24	26	35
10/ 9	1.1	.7																16	16	20	36
8/ 7	.3	.4																7	7	9	31
6/ 5	.2	.3																5	5	5	16
4/ 3	.7	.6																11	11	10	7
2/ 1	.4	.9																12	12	14	6
0/ -1	.7	.2																8	8	8	9
-2/ -3	.3	.6																8	8	9	9
-4/ -5	.3	.1																4	4	5	12
-6/ -7	.3	.1																4	4	3	6

Element (X)	Σx²		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME		YEARS	MONTH

PAGE 2 0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-8/-9	.1																	1	1	2	4
-10/-11	.6																	5	5	5	10
-12/-13	.																				7
-14/-15	.2																	2	2	2	3
-16/-17																					1
-18/-19																					2
-20/-21																					1
-22/-23																					1
-24/-25																					1
TOTAL	12.4	27.0	19.4	15.7	11.1	7.8	3.8	1.8	.8	.2									900		900
																		900		900	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3920438	57144	63.5	18.028	900							90
Dry Bulb	1020040	27594	30.7	13.912	900	3.2	46.7					90
Wet Bulb	738546	23718	26.4	11.236	900	3.4	61.1					90
Dew Point	407542	16636	18.5	10.549	900	6.6	54.7					90

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 MALMSTROM AFB MT/GREAT FALLS   68-77   NOV
STATION   STATION NAME   YEARS   MONTH

PAGE 1   0300-0500
HOURS (L. S. T.)

| Temp (F) | \multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)} | TOTAL D.B./W.B. | \multicolumn{3}{c}{TOTAL} |
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
58/ 57									.1									1	1		
56/ 55						.3	.4	.1	.2									10	10		
54/ 53						.2	.8	.7	.1									16	16		
52/ 51					.2	.4	.7	.6	.3									20	20		
50/ 49				.2	.7	.3	.2	.2	.1									16	16		
48/ 47			.1	.2	1.1	.3	.1	.2										19	19		
46/ 45				.8	1.7	1.4	.6	.2										42	42	3	
44/ 43			.9	1.7	1.4	1.1	.1											47	47	14	
42/ 41		.8	.4	1.1	1.2	1.6	.1											47	47	23	
40/ 39		.4	1.2	2.1	1.2	.9												53	53	64	1
38/ 37			.1	1.6	2.8	1.0	.2											51	51	41	11
36/ 35			.8	1.2	2.2	1.3												50	50	53	10
34/ 33	.1	1.2	1.0	2.1	.8													47	47	76	28
32/ 31	.2	1.4	1.7	1.7	.4													49	49	72	45
30/ 29	.7	1.8	2.6	.6	.1													51	51	76	41
28/ 27	1.0	3.1	3.0	.3														67	67	78	69
26/ 25	1.3	2.7	1.8	.2														54	54	74	71
24/ 23	.7	2.3	1.1															37	37	62	65
22/ 21	.9	1.9	.4															29	29	50	76
20/ 19	.9	1.8	.1															25	25	28	69
18/ 17	.7	2.0	.1															25	25	30	71
16/ 15	.3	1.1	.3															16	16	20	79
14/ 13	.8	1.3																19	19	17	65
12/ 11	1.0	.2	.2															13	13	20	35
10/ 9	.8	1.0																16	16	11	37
8/ 7	.2	.9	.1															11	11	14	25
6/ 5	.4	.6																9	9	9	10
4/ 3	.2	1.6																16	16	12	5
2/ 1	.3	.6																8	9	14	10
0/ -1	1.2	.7																17	17	14	10
-2/ -3	.1	.2																3	3	9	16
-4/ -5		.1																1	1	1	9
-6/ -7	.2																	2	2	2	11
-8/ -9	.3																	3	3	3	8

Element (X)	Σx²		Σx		x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature
Rel. Hum.								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb														
Wet Bulb														
Dew Point														

USAFETAC   FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-10/-11	.4					..												4	4	4	6
-12/-13	.1																	1	1	1	3
-14/-15	.2				..													2	2	2	3
-16/-17																					3
-18/-19	.1																	1	1	1	2
-20/-21	.1																	1	1	1	3
-22/-23																					1
-28/-29																					1
TOTAL	13.5	28.6	17.9	16.0	11.2	6.9	3.0	2.0	.9										900		899
																		899		899	

Element (X)	Σx²	Σx	X̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4046160	57994	64.5	18.429	899							
Dry Bulb	985599	26969	30.0	14.050	900	3.5	48.1					90
Wet Bulb	719292	23256	25.9	11.448	899	3.8	62.6					90
Dew Point	404923	16363	18.2	10.921	899	7.6	85.0					90

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 1   0600-0800 HOURS (L. S. T.)

Temp (F)	\ 0	WBD\ 1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL\ D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57								.1		.3								4	4		
56/ 55						.3		.3	.3									9	9		
54/ 53					.2	.7		.6	.1									14	14		
52/ 51						.8	.1	.4	.1									13	13		
50/ 49					.6	1.0	.2	.4	.3									23	23		
48/ 47				.6	.4	.4	.3	.2										18	18		
46/ 45				1.0	1.3	1.0	.2											32	32	3	
44/ 43		.1	.4	1.6	1.7	2.0	.6											57	57	8	
42/ 41		.3	.3	2.0	1.1	1.3	.2											48	48	34	
40/ 39		.8	1.0	1.7	1.0	.7	.1											47	47	41	
38/ 37		.6	1.6	1.8	1.3	.2												49	49	48	7
36/ 35		.7	1.3	1.9	1.0													44	44	63	14
34/ 33	.2	1.0	1.3	2.0	.9													49	49	78	22
32/ 31		.9	2.3	1.3	.1													42	42	61	39
30/ 29	.6	3.6	3.2	1.3	.3													83	83	74	46
28/ 27	1.2	2.8	3.1	.2														66	66	96	64
26/ 25	.8	2.0	2.1															44	44	73	72
24/ 23	.4	2.4	1.0															35	35	57	61
22/ 21	.4	2.1	.1															24	24	44	76
20/ 19	.9	2.9																34	34	40	72
18/ 17	.7	1.3																18	18	28	82
16/ 15	.7	.8	.3															16	16	17	85
14/ 13	.7	.9																14	14	8	62
12/ 11	.8	1.0																16	16	21	39
10/ 9	1.0	.9	.1															18	18	16	29
8/ 7	.1	1.0																10	10	9	24
6/ 5	.1	.6	.1															7	7	11	8
4/ 3	.7	1.0																15	15	10	8
2/ 1	1.1	1.0																19	19	25	6
0/ -1	1.2	.2																13	13	14	13
-2/ -3	.2	.7																8	8	8	20
-4/ -5																				2	6
-6/ -7	.1																	1	1	1	15
-8/ -9	.4																	4	4	4	7

Element (X)	Σx²	Σx	x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2 | 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-10/-11	.6																	5	5	5	5
-12/-13																					6
-14/-15	.1																	1	1	1	5
-16/-17																					3
-18/-19																					4
TOTAL	13.0	29.7	18.4	15.3	9.8	7.7	2.8	2.1	.9	.3									900		900
																		900		900	

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4043626	57936	64.4	18.692	900							
Dry Bulb	974705	26837	29.8	13.930	900	3.2	49.3					90
Wet Bulb	708070	23116	25.7	11.278	900	3.5	62.5					90
Dew Poi.	393405	16129	17.9	10.774	900	8.4	85.7					90

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 1   0900-1100 HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 69													.1					1	1		
68/ 67													.1					1	1		
66/ 65											.2							2	2		
64/ 63										.1								1	1		
62/ 61								.1	.2	.7	.3							12	12		
60/ 59						..	.3		.3	.3	.1							10	10		
58/ 57							.4	.3	.3	.2								12	12		
56/ 55						.6	.8	.9	.4									24	24		
54/ 53					.1	.6	1.1	.9	.3	.1								28	28		
52/ 51				.1	.6	1.3	.7	1.1	.3									37	37		
50/ 49				.1	1.0	1.8	1.9	.1	.2									46	46		
48/ 47				.9	.4	1.6	1.2	.9										45	45	7	
46/ 45		.1	.2	.6	1.7	1.8	1.0	.1										49	49	19	
44/ 43		.1	.6	1.4	1.7	1.3	1.3											58	58	37	
42/ 41		.1	.9	1.7	1.2	1.3	.3											50	50	63	3
40/ 39			.9	1.4	1.9	1.0												47	47	50	1
38/ 37		.3	.8	1.3	1.9	.6												44	44	88	7
36/ 35	.1	1.0	2.1	1.9	1.9	.1												64	64	63	16
34/ 33	.2	1.8	1.8	1.6	.4													52	52	80	37
32/ 31	.3	1.0	1.6	1.7	.2													43	43	103	46
30/ 29	.8	1.9	1.8	.4	.1													45	45	80	58
28/ 27	.9	1.6	1.0	.2														33	33	72	78
26/ 25	1.0	.6	.3	.1														18	18	38	100
24/ 23	.3	1.0	.4	.2														18	18	23	62
22/ 21	.7	.9	.2															16	16	23	80
20/ 19	.2	1.6	.1															17	17	13	56
18/ 17	.7	1.6	.3															23	23	30	77
16/ 15	.4	1.2																15	15	17	70
14/ 13	.6	.3																8	8	11	41
12/ 11	.4	.3	.1															8	8	7	48
10/ 9	.2	.8																9	9	6	16
8/ 7	.3	.3	.1															7	7	10	18
6/ 5	.3	1.2																14	14	15	14
4/ 3	.3	.9	.1															12	12	9	6

Element (X)	Σx²			Σx		x̄	σx		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0900-1100 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
2/ 1	.3	1.3																15	15	14	6
0/ -1	1.0																	9	9	15	12
-2/ -3	.1	.1																2	2	1	14
-4/ -5	.3																	3	3	4	8
-6/ -7	.2																	2	2	2	14
-8/ -9																					4
-10/-11																					1
-12/-13																					1
-14/-15																					4
-18/-19																					1
-20/-21																					1
TOTAL	9.9	20.0	13.3	13.7	13.1	11.9	9.1	4.4	2.2	1.4	.7		.2							900	900
																		900		900	

Element (X)	$\Sigma_x{}^2$	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3322227	51375	57.1	20.817	900							
Dry Bulb	1338891	32109	35.7	14.665	900	1.6	31.7	.2				90
Wet Bulb	901954	26698	29.7	11.060	900	2.2	49.3					90
Dew Point	451235	17963	20.0	10.155	900	6.0	83.6					90

USAFETAC FORM 0-26-5 (OL A)
JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	YEARS	MONTH

PAGE 1   1200-1400 HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
74/ 73														.1				1	1		
72/ 71												.1	.1	.2				4	4		
70/ 69											.1	.1						2	2		
68/ 67													.2					2	2		
66/ 65											.4	.8						11	11		
64/ 63								.2	.1	.9	.3	.3						17	17		
62/ 61							.1	.6	1.1		.3							19	19		
60/ 59						.1	.1	.8	.6	.4	.1							19	19		
58/ 57							.8	1.0	1.2	.4								31	31		
56/ 55						.8	.8	2.2	.8	.4	.1							46	46		
54/ 53							1.1	1.2	1.1	.8								38	38		
52/ 51			.2		.6	1.0	2.7	.8	.1	.2								50	50	2	
50/ 49			.1	.1	.7	1.1	2.7	1.3	.4									58	58	5	
48/ 47				.4	.6	1.8	1.2	1.3										48	48	18	
46/ 45				.9	1.8	3.1	2.0	.4										74	74	50	2
44/ 43			.1	.7	1.0	2.6	1.8	.1										56	56	50	1
42/ 41			.2	.7	.7	2.0	.6											37	37	81	2
40/ 39			.6	.3	.8	1.6	.2											31	31	67	1
38/ 37		.9	.9	1.4	1.7	.8												51	51	78	2
36/ 35		1.2	1.7	1.7	.6	.7												52	52	87	22
34/ 33	.1	1.9	1.1	1.0	.8													44	44	96	40
32/ 31	.1	1.4	.7	1.0	.1													30	30	84	49
30/ 29	.2	1.6	.4	.4														24	24	69	51
28/ 27	1.0	.7	1.0	.2														26	26	47	83
26/ 25	.1	.8	.3															11	11	25	100
24/ 23	.3	.1	.4															8	8	23	73
22/ 21	.1	1.0	.1															11	11	11	78
20/ 19		1.3	.1															13	13	12	53
18/ 17	.3	.6																8	8	14	61
16/ 15		.9	.3															11	11	6	70
14/ 13	.3	.1	.1															5	5	10	50
12/ 11	.1	.7																7	7	5	36
10/ 9		.8																7	7	6	32
8/ 7	.4	.4																8	8	10	19

Element (X)	Σx^2		Σx		$\bar{x}$		σ_x	No. Obs.	Mean No. of Hours with Temperature
									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112 — STATION MALMSTROM AFB MT/GREAT FALLS — STATION NAME 68-77 — YEARS NOV — MONTH

PAGE 2 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
6/ 5		1.0																9	9	9	15
4/ 3	.4	1.3																16	16	12	11
2/ 1		1.1																10	10	17	8
0/ -1	.2																	2	2	3	9
-2/ -3		.3																3	3		5
-4/ -5																				3	11
-6/ -7																					10
-8/ -9																					1
-10/-11																					2
-12/-13																					2
-14/-15																					1
TOTAL	3.9	18.1	8.4	8.9	9.1	16.6	14.1	9.9	5.1	2.4	1.4	1.3	.3	.3					900		900
																		900		900	

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	2573700	44084	49.0	21.469	900							
Dry Bulb	1693814	36650	40.7	14.965	900	.5	20.9	.9	.1			90
Wet Bulb	1055612	29298	32.6	10.645	900	.6	36.6					90
Dew Point	458327	18363	20.4	9.647	900	-4.1	83.0					90

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH
			PAGE 1	1500-1700
				HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
74/ 73															.1			1	1		
72/ 71													.1	.1				2	2		
70/ 69												.2						2	2		
66/ 65										.1	.3	.1						5	5		
64/ 63									.3	.2	.2	.2						9	9		
62/ 61						.1	.6	.4	.2	.2	.3							15	15		
60/ 59								.4	1.2	.4	.1							20	20		
58/ 57					.1	.1	.3	.6	.7	.2								18	18		
56/ 55					.1	.3	1.0	1.7	1.0	.3								40	40		
54/ 53					.1	1.2	1.4	.9	.6	.2								40	40		
52/ 51					.6	1.3	1.3	.9	.4	.1								42	42		
50/ 49				.3	1.0	1.1	2.1	.9	.3									52	52	7	
48/ 47		.1		.3	.7	2.1	1.2	.9										48	48	12	
46/ 45		.2		.4	2.4	2.6	2.1	.1										71	71	31	
44/ 43			.1	.3	1.6	2.1	1.3	.1										50	50	52	1
42/ 41				1.0	1.8	2.2	.8											52	52	68	3
40/ 39			.8	1.0	1.8	1.1	.6											47	47	60	2
38/ 37		.4	.9	1.4	1.3	1.0												46	46	80	7
36/ 35	.1	1.6	1.9	2.0	1.2	.6												66	66	81	19
34/ 33	.3	1.0	1.1	1.3	1.0													43	43	97	31
32/ 31		1.4	.8	1.6	.3													37	37	89	37
30/ 29		1.1	1.0	.7	.1													26	26	73	53
28/ 27	.3	1.0	.6	.2	.1													20	20	49	88
26/ 25	.6	1.6	.8															26	26	48	92
24/ 23	.2	.7	.4															12	12	28	77
22/ 21		.7	.1															7	7	12	69
20/ 19		1.8																16	16	13	66
18/ 17	.4	.9																12	12	21	55
16/ 15																				4	63
14/ 13	.2	1.1																12	12	9	68
12/ 11	.1	.1																2	2	5	37
10/ 9	.1	.3	.1															5	5	1	37
8/ 7	.9	.6																13	13	13	18
6/ 5	.2	.4																6	6	7	16

Element (X)	Σx²		Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≤67 F	≤73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC FORM 0-26-5 (OL A) JUL 64 — REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
4/ 3	.2	1.4																15	15	15	12
2/ 1		1.0																9	9	9	8
0/ -1	.7	.1																7	7	9	2
-2/ -3	.1	.2																3	3	2	11
-4/ -5																				2	4
-6/ -7		.1																1	1		10
-8/ -9																				1	4
-10/-11	.1																	1	1	1	5
-12/-13																					1
-16/-17																					1
-18/-19																					1
-20/-21																					1
TOTAL	4.7	17.9	8.6	10.7	14.2	15.8	12.3	7.0	5.0	1.9	1.0	.6	.1	.1	.1			899	899	899	899

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	2660094	45314	50.4	20.464	899							90
Dry Bulb	1569171	35199	39.2	14.584	899	1.2	23.0	.5	.1			90
Wet Bulb	999546	28410	31.6	10.644	899	1.5	41.1					90
Dew Point	444185	17947	20.0	9.781	899	4.0	83.7					90

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1800-2000 HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
62/ 61									.1									1	1		
60/ 59							.4	.1	.1									6	6		
58/ 57						.3	.3	.4										10	10		
56/ 55					.1	.2	.1	.4	.1									9	9		
54/ 53					.1	.8	.7	.7	.1									21	21		
52/ 51				.1		1.0	1.3	.2	.1									25	25		
50/ 49				.2	1.1	1.0	1.2	.6	.1									38	38		
48/ 47				.6	.9	1.2	.7	.3										33	33		
46/ 45			.1	.9	1.4	1.2	.6	.2										40	40	15	
44/ 43			.8	1.2	1.9	1.3	.2											49	49	17	
42/ 41		.1	.8	.9	1.2	1.2												38	38	39	
40/ 39		.2	.9	1.8	3.1	1.2	.1											66	66	63	3
38/ 37		.4	1.4	3.2	1.6	.4												64	64	55	3
36/ 35		1.1	2.7	2.0	1.3	.7												70	70	62	12
34/ 33		1.8	1.0	2.3	.1	.1												48	48	86	35
32/ 31	.2	1.6	.9	1.0	.6													38	38	99	49
30/ 29	.3	2.7	1.1	1.6	.2													53	53	85	37
28/ 27	.6	1.4	1.6	.8														39	39	58	86
26/ 25	.4	2.3	1.9	.2														44	44	53	81
24/ 23	.9	1.9	1.6	.1														40	40	56	62
22/ 21	.1	1.6	1.2	.1														27	27	33	88
20/ 19	.2	2.2	.6	.3														30	30	33	58
18/ 17	.6	1.1																15	15	40	58
16/ 15	.6	.7	.1	.1														13	13	17	69
14/ 13	.3	.8																10	10	13	63
12/ 11	.1	.7																7	7	5	51
10/ 9	.3	.6																8	8	9	37
8/ 7	.2	.2																4	4	7	24
6/ 5	.6	.2																7	7	6	9
4/ 3	.1	.9																9	9	10	10
2/ 1	.0	.8																12	12	7	5
0/ -1	1.0	.																10	10	15	10
-2/ -3	.2																	2	2	3	15
-4/ -5	.3																	3	3	3	3

Element (X)	Σx²			Σx		X̄		σx		No. Obs.	Mean No. of Hours with Temperature						
											≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2   1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-5/-7																					7
-8/-9																					7
-10/-11	.2																	2	2	2	4
-12/-13	.3																	3	3	3	1
-14/-15	.1																	1	1	1	
-16/-17																					1
-18/-19	.2																	2	2	2	
-20/-21																					2
-22/-23																					1
-24/-25																					2
-28/-29																					1
-30/-31																					1
TOTAL	8.6	23.4	16.6	17.5	13.6	10.4	5.4	2.9	1.4	.2								897	897	897	897

Element (X)	Σ_{x^2}	Σ_x	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3479255	53277	59.4	18.747	897							90
Dry Bulb	1158523	29807	33.2	13.695	897	2.3	38.0					90
Wet Bulb	812792	25202	28.1	10.811	897	2.9	56.2					90
Dew Point	424032	17168	19.1	10.321	897	5.5	84.5					90

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   NOV
STATION   STATION NAME   YEARS   MONTH

PAGE 1   2100-2300
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
60/ 59								.1		.1								2	2		
58/ 57								.6	.3	.1								9	9		
56/ 55							.3	.6	.4									12	12		
54/ 53						.7	.2	.4	.4									16	16		
52/ 51				.2	.2	.7	.9	.7										24	24		
50/ 49				.1	.8	.9	.3	.2										21	21		
48/ 47					1.0	1.0	.3	.1										22	22		
46/ 45			.2	1.2	2.0	.6	1.1	.1										47	47	6	
44/ 43			1.0	1.6	2.7	.7	.2											55	55	20	
42/ 41			.6	1.2	1.1	.4	.1											31	31	28	
40/ 39		.2	.7	1.8	1.7	1.1												49	49	61	1
38/ 37		.2	.7	3.9	1.6	.3												60	60	52	5
36/ 35		1.1	1.4	1.9	1.3													52	52	65	10
34/ 33	.2	1.1	2.6	2.0	.7	.1												60	60	58	25
32/ 31	.3	1.8	2.2	1.7	.3													57	57	90	54
30/ 29	.3	2.2	2.6	.9														54	54	88	41
28/ 27	1.1	1.8	2.1	.2														47	47	71	67
26/ 25	.2	2.6	1.7	.1														41	41	61	87
24/ 23	.7	2.0	.8	.1														32	32	57	60
22/ 21	.2	1.8	.3	.1														22	22	33	83
20/ 19	.3	3.0	.8	.1														38	38	34	72
18/ 17	.3	2.5	.2															27	27	28	70
16/ 15	.3	1.3	.1															16	16	33	67
14/ 13	.7	.8	.1															14	14	18	56
12/ 11	.8	.8	.2															16	16	15	50
10/ 9	1.1	.7																16	16	18	31
8/ 7	.3																	3	3	7	36
6/ 5	.6																	5	5	5	10
4/ 3	.4	.8																11	11	4	9
2/ 1	.1	1.0																10	10	15	4
0/ -1	.4	.3																7	7	6	7
-2/ -3	.7	.2																8	8	10	10
-4/ -5	.2																	2	2	3	12
-6/ -7	.3																	3	3	3	4

Element (X)	Σx²		Σx		x̄	σx		No. Obs.		Mean No. of Hours with Temperature					
Rel. Hum.										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																
Wet Bulb																
Dew Point																

USAFETAC   FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME	YEARS		MONTH

PAGE 2   2100-2300 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-8/-9	.1																	1	1	1	9
-10/-11	.3																	3	3	3	5
-12/-13	.1																	1	1	1	3
-14/-15																					1
-16/-17	.1																	1	1	1	1
-18/-19	.1				..													1	1	1	1
-20/-21	.1																	1	1	1	1
-22/-23																					2
-24/-25																					2
-28/-29																					1
TOTAL	10.7	26.2	18.3	17.2	13.4	6.5	3.6	2.8	1.2	.2								897	897	897	897

Element (X)	Σx²	Σx	X̄	σ_R	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3761886	55760	62.2	18.166	897							
Dry Bulb	1061440	28228	31.5	13.900	897	2.8	43.8					90
Wet Bulb	757961	24101	26.9	11.100	897	3.0	60.9					90
Dew Point	409541	16761	18.7	10.370	897	5.9	85.9					90

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		NOV
STATION	STATION NAME		YEARS	MONTH

PAGE 1 — ALL HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
74/ 73														.0	.0			2	2		
72/ 71												.0	.0	.0				6	6		
70/ 69											.0	.0	.0					5	5		
68/ 67													.0					3	3		
66/ 65										.0	.1	.1						18	18		
64/ 63								.0	.1	.2	.1	.1						27	27		
62/ 61							.0	.2	.2	.1	.1							47	47		
60/ 59						.0	.1	.2	.3	.2	.0							58	58		
58/ 57					.0	.0	.2	.4	.4	.2								88	88		
56/ 55					.0	.3	.6	.8	.5	.1	.0							161	161		
54/ 53					.1	.6	.8	.7	.4	.0								187	187		
52/ 51				.1	.3	.9	1.0	.6	.2	.0								228	228	2	
50/ 49			.0	.2	.8	1.0	1.2	.5	.2									280	280	12	
48/ 47			.0	.4	.8	1.2	.7	.3										259	259	37	
46/ 45		.0	.1	.9	1.8	1.7	1.0	.2										398	398	131	2
44/ 43		.0	.6	1.2	1.8	1.6	.7	.0										418	418	217	2
42/ 41			.2	.5	1.3	1.2	1.3	.3										349	349	365	8
40/ 39			.3	.9	1.5	1.6	1.1	.1										396	396	450	10
38/ 37			.4	1.0	2.3	1.4	.5											404	404	495	50
36/ 35	.0	1.0	1.7	2.0	1.2	.3												447	447	553	112
34/ 33	.2	1.4	1.5	1.8	.6	.0												399	399	633	255
32/ 31	.2	1.4	1.6	1-5	.3													348	348	668	352
30/ 29	.4	2.2	1.9	.9	.1													391	391	624	369
28/ 27	1.0	1.8	2.0	.3	.0													367	367	551	605
26/ 25		.7	1.9	1.3	.1													288	288	444	686
24/ 23		.6	1.5	.9	.1													215	215	374	534
22/ 21		.4	1.4	.4	.0													164	164	237	638
20/ 19		.4	2.1	.2	.1													200	200	212	516
18/ 17		.5	1.4	.1														139	139	213	535
16/ 15		.3	.9	.2	.0													100	100	130	575
14/ 13		.5	.9	.1														104	104	102	462
12/ 11		.5	.7	.1														93	93	104	331
10/ 9		.6	.7	.0														95	95	87	255
8/ 7	.4	.5	.0															63	63	79	195

Element (X)	Σx²		Σx		X̄		σx		No. Obs.	Mean No. of Hours with Temperature						
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

24112 STATION | MALMSTROM AFB MT/GREAT FALLS — STATION NAME | 68-77 YEARS | NOV MONTH

PAGE 2 | ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
6/ 5	.3	.5	.0															62	62	67	98
4/ 3	.4	1.1	.0															105	105	82	68
2/ 1	.4	1.0																95	96	115	53
0/ -1	.8	.2																73	73	84	72
-2/ -3	.2	.3																37	37	42	100
-4/ -5	.2	.0																13	13	23	65
-6/ -7	.2	.0																13	13	11	77
-8/ -9	.1																	9	9	11	44
-10/-11	.3																	20	20	20	38
-12/-13	.1																	5	5	5	24
-14/-15	.1																	6	6	6	17
-16/-17	.0																	1	1	1	10
-18/-19	.1																	4	4	4	11
-20/-21	.0																	2	2	2	9
-22/-23																					5
-24/-25																					5
-28/-29																					3
-30/-31																					1
TOTAL	.6	23.9	15.1	14.4	11.9	10.4	6.8	4.1	2.2	.8	.4	.2	.1	.1	.0			7192	7193 / 7192	7192	7192

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	27807386	422884	58.8	20.227	7192							720
Dry Bulb	9802183	243393	33.8	14.758	7193	18.3	301.6	1.6	.2			720
Wet Bulb	6693773	203799	28.3	11.303	7192	20.9	430.3					720
Dew Point	3393190	137330	19.1	10.354	7192	48.2	676.1					720

Mean No. of Hours with Temperature

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 1 0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
54/ 53					.1			.2										3	3		
52/ 51					.2	.1												3	3		
50/ 49				.1	.3	.3	.1											8	8		
48/ 47				.1	.2	.3	.2											8	8		
46/ 45				1.0	1.9	.4	.9											39	39	1	
44/ 43			.1	1.3	1.7	1.1												39	39	4	
42/ 41			.5	1.6	2.0	.9												47	47	7	
40/ 39			1.0	1.3	1.1	.8	.2											40	40	18	
38/ 37			.8	1.5	1.1	.9												39	39	44	
36/ 35		.1	.6	1.8	.8	.2												33	33	60	7
34/ 33	.1	.4	.4	2.8	.5	.1												41	41	46	10
32/ 31	.2	.8	1.7	1.4	.6													44	44	40	18
30/ 29	.1	.9	2.6	1.4	.2													48	48	55	33
28/ 27	.4	1.0	3.0	.5														46	46	79	50
26/ 25	.4	1.8	2.7	.3														49	49	50	44
24/ 23	.1	2.3	2.8															48	48	66	37
22/ 21	.4	4.2	1.1															53	53	60	58
20/ 19	.2	3.9	.4															42	42	60	58
18/ 17	.9	2.5																31	31	52	87
16/ 15	.1	2.5																24	24	27	60
14/ 13	1.1	1.3																22	22	31	74
12/ 11	1.0	1.7																25	25	18	72
10/ 9	1.2	2.0																30	31	37	65
8/ 7	.9	.8																15	15	17	43
6/ 5	.6	.5																11	11	15	31
4/ 3	1.5	1.1																24	24	16	14
2/ 1	.5	.6																11	11	15	20
0/ -1	1.6	.2																17	18	20	16
-2/ -3	1.7	.4																20	21	20	18
-4/ -5	1.0	.1																10	10	12	10
-6/ -7	.8																	7	7	7	8
-8/ -9	.9																	8	8	8	21
-10/-11	1.1																	10	10	10	10
-12/-13	.4																	4	4	4	7

Element (X)	Σx²		Σx		x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

USAFETAC   FORM 0-26-5 (OL A)   JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 2   0000-0200
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-14/-15	.6																	6	6	6	7
-16/-17	.5				.													5	5	5	12
-18/-19	.2							.										2	2	2	7
-20/-21	.3																	3	3	3	6
-22/-23	.3																	3	3	3	2
-24/-25	.3																	3	3	3	3
-26/-27	.1																	1	1	1	6
-28/-29	.1				.													1	1	1	2
-30/-31																					1
-32/-33	.1													.				1	1	1	5
-38/-39																					2
-40/-41	.1																	1	1	1	
-42/-43	.2																	2	2	2	
-48/-49																					3
TOTAL	20.3	29.1	17.8	15.2	10.9	5.1	1.4	.2										927	930	927	927

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature							
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Rel. Hum.	4195364	60648	65.4	15.675	927	≤ 0 F	≤ 32 F					93	
Dry Bulb	759333	21565	23.2	16.706	930	10.6	63.0					93	
Wet Bulb	560149	18483	19.9	14.385	927	10.9	74.9					93	
Dew Point	315547	11539	12.4	13.625	927	14.6	91.3					93	

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

<u>24112</u>   <u>MALMSTROM AFB MT/GREAT FALLS</u>   <u>67-76</u>

STATION   STATION NAME   YEARS

DEC
MONTH

PAGE 1   <u>0300-0500</u>
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53					.1	.2	.1	.3										7	7		
52/ 51					.1	.3	.1											5	5		
50/ 49				.1	.3	.1	.1	.1										7	7		
48/ 47				.1														1	1		
46/ 45				.6	.9	.8	.6											27	27	3	
44/ 43			.2	2.1	1.0	.8	.4											41	41	3	
42/ 41		.1	.4	2.2	1.5	.5	.3											47	47	11	
40/ 39		.1	.6	1.1	1.6	.8	.1											40	40	13	
38/ 37		.1	1.0	1.9	1.3	.1												41	41	37	
36/ 35			1.0	2.6	.8	.1												41	41	49	8
34/ 33		.3	.3	2.2	.4													30	30	52	7
32/ 31		.9	1.7	1.7	.6													46	46	57	20
30/ 29	.1	1.3	2.2	.4	.3													40	40	47	36
28/ 27	.3	1.5	2.9	.8														51	51	70	44
26/ 25	.4	2.1	2.5	.5														51	51	55	29
24/ 23	.4	3.4	2.5															58	58	60	49
22/ 21	.4	3.8	1.2															50	50	68	77
20/ 19	.4	3.6	.6															43	43	65	61
18/ 17	.4	1.4	.3															20	20	44	71
16/ 15	.2	2.3	.2															25	25	19	75
14/ 13	.9	2.2																28	28	36	52
12/ 11	1.0	1.1																19	21	22	72
10/ 9	1.9	2.2																38	38	36	51
8/ 7	1.0	.8																16	16	24	51
6/ 5	.6	.5																11	12	7	33
4/ 3	.5	1.0																14	14	10	23
2/ 1	.6	.9																14	14	18	9
0/ -1	1.4	.3																16	18	19	15
-2/ -3	1.4	.6																19	19	20	13
-4/ -5	1.0																	9	9	10	14
-6/ -7	1.2																	11	11	11	9
-8/ -9	2.2																	20	20	20	15
-10/-11	.8																	7	7	7	14
-12/-13	.2																	2	2	2	12

Element (X)	ΣX²		ΣX		X̄	σₓ	No. Obs.			Mean No. of Hours with Temperature						
									≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC   FORM JUL 64   0-26-5 (OL A)

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112   MALMSTROM AFB MT/GREAT FALLS   67-76

STATION   STATION NAME   YEARS

DEC
MONTH

PAGE 2   0300-0500
HOURS (L. S. T.)

Temp (F)	\multicolumn{17}{c}{WET BULB TEMPERATURE DEPRESSION (F)}	TOTAL D.B./W.B.	\multicolumn{3}{c}{TOTAL}
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
-14/-15	.2																	2	2	2	16
-16/-17	.4																	4	4	4	5
-18/-19	.3																	3	3	3	12
-20/-21	.4																	4	4	4	4
-22/-23	.5																	5	5	5	2
-24/-25	.4																	4	4	4	3
-26/-27	.2																	2	2	2	5
-28/-29	.1																	1	1	1	2
-30/-31	.2																	2	2	2	4
-32/-33																					2
-34/-35																					6
-38/-39																					1
-40/-41	.2																	2	2	2	
-44/-45	.1																	1	1	1	
-46/-47																					2
-50/-51																					1
TOTAL	20.8	30.3	17.7	16.3	9.0	3.7	1.8	.4										.925	930	925	925

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	Mean No. of Hours with Temperature
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4221419	60819	65.8	15.520	925							
Dry Bulb	743451	21011	22.6	17.009	930	11.6	64.3					93
Wet Bulb	551764	18008	19.5	14.756	925	12.0	76.1					93
Dew Point	320677	11159	12.1	14.190	925	15.8	91.5					93

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 1   0600-0800
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
54/ 53						.3	.2	.2										7	7		
52/ 51						.1	.1	.1										3	3		
50/ 49					.2	.1		.2										5	5		
48/ 47				.1	.3	.4	.4											12	12		
46/ 45				.9	1.1	.4	.6											28	28		
44/ 43				.8	1.3	.4	.8											30	30	3	
42/ 41			.2	1.2	1.5	.3	.2											32	32	10	
40/ 39		.3	1.6	1.7	2.6	.2	.1											61	61	16	
38/ 37		.1	.6	2.2	.8	.3												37	37	30	
36/ 35	.1		.9	1.9	1.3													39	39	44	3
34/ 33		.2	1.1	2.7	.8													44	44	62	13
32/ 31		1.3	1.8	1.0		.1												39	39	61	14
30/ 29		.9	2.9	1.2	.2													48	48	53	33
28/ 27	.3	3.0	2.4	.2														55	55	76	42
26/ 25	.2	1.5	1.9															34	34	61	49
24/ 23	.6	3.2	1.4	.1														50	50	54	40
22/ 21	.5	2.4	1.4															40	40	52	89
20/ 19	.3	3.9	.4															43	43	49	59
18/ 17	.5	3.2	.5															40	40	45	59
16/ 15	.4	1.9	.2															24	24	41	70
14/ 13	1.3	1.7																28	28	36	64
12/ 11	.6	.4	.1															11	12	13	81
10/ 9	1.9	2.5																41	41	35	47
8/ 7	1.3	1.1																22	22	28	41
6/ 5	.6	.4																10	10	11	22
4/ 3	1.2	.6																17	17	18	25
2/ 1	.4	1.4																17	18	10	15
0/ -1	1.6	.2																17	17	24	23
-2/ -3	1.2	.4																15	15	16	12
-4/ -5	1.1																	10	10	11	7
-6/ -7	1.7																	16	16	16	17
-8/ -9	1.5	.1																15	15	13	13
-10/-11	.4																	4	4	4	13
-12/-13	.3																	3	3	3	13

Element (X)	$\Sigma_X{}^2$		Σ_X		$\bar{X}$		σ_x		No. Obs.		Mean No. of Hours with Temperature						
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC

FORM JUL 64   O-26.5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 — STATION MALMSTROM AFB MT/GREAT FALLS — STATION NAME 67-76 — YEARS DEC — MONTH

PAGE 2   0600-0800 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-14/-15	.4																	4	4	4	15
-16/-17	.1																	1	1	1	10
-18/-19	.8																	7	7	7	3
-20/-21	.3																	3	3	3	7
-22/-23	.2																	2	2	2	1
-24/-25	.6																	6	6	6	6
-26/-27	.1																	1	1	1	5
-28/-29	.1																	1	1	1	
-30/-31	.2																	2	2	2	3
-32/-33																					2
-34/-35																					4
-36/-37	.1																	1	1	1	3
-38/-39	.1																	1	1	1	1
-40/-41	.1																	1	1	1	
-42/-43	.1																	1	1	1	
-44/-45																					2
-46/-47																					1
-50/-51																					1
TOTAL	21.8	30.9	17.6	13.9	10.0	2.8	2.5	.5											930		928
	928																			928	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4272306	61240	66.0	15.786	928							93
Dry Bulb	741556	20970	22.5	17.007	930	11.1	63.2					93
Wet Bulb	550188	18006	19.4	14.718	928	12.0	76.0					93
Dew Point	321399	11163	12.0	14.208	928	16.2	91.4					93

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 STATION	MALMSTROM AFB MT/GREAT FALLS — STATION NAME	67-76 YEARS	DEC MONTH

PAGE 1   0900-1100 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
58/ 57								.1										1	1		
56/ 55						.2	.4	.1		.2								9	9		
54/ 53						.3	.2	.2	.1									8	8		
52/ 51						.3	.4	.3	.2									12	12		
50/ 49						.4	.4	.5	.1									14	14		
48/ 47				.2	1.1	.6	.5	.3										26	26		
46/ 45			.2	1.0	1.1	.8	1.4	.2										43	43	3	
44/ 43			.1	.6	1.2	1.7	.3	.1										38	38	8	
42/ 41			.5	1.4	2.0	1.0	.2											48	48	21	
40/ 39		.2	.6	1.2	2.0	.4												42	42	28	
38/ 37			.3	2.2	1.3	.4	.1											40	40	38	2
36/ 35			.8	2.8	1.9													51	51	51	9
34/ 33		.2	1.5	2.9	1.0													52	52	77	8
32/ 31		1.2	1.7	2.6	.2													53	53	57	12
30/ 29	.2	1.3	2.3	1.2														46	46	89	43
28/ 27	.1	2.4	1.9	.8														48	48	67	46
26/ 25	.5	2.3	1.6	.3														44	44	70	49
24/ 23	.9	1.9	1.3	.1														39	39	58	52
22/ 21	.6	1.3	1.0															27	27	48	83
20/ 19		2.9	.6															33	33	26	87
18/ 17	.4	1.2	.3															18	19	32	67
16/ 15	.5	2.2	.1															26	27	32	72
14/ 13	.6	1.3	.1															19	19	26	66
12/ 11	.4	1.2	.1															16	16	15	64
10/ 9	1.0	1.6																24	24	21	42
8/ 7	.9	1.8																25	25	26	36
6/ 5	.9	.4																9	9	18	17
4/ 3	.4	1.6																19	19	9	23
2/ 1	.2	.1																3	3	12	21
0/ -1	1.3	.2																14	14	13	7
-2/ -3	1.0	.6																15	15	17	15
-4/ -5	.6	.1																7	7	6	10
-6/ -7	.8	.1																8	8	8	8
-8/ -9	1.6																	15	15	16	15

Element (X)	Σx²		Σx		x̄		σx	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥90 F	≥93 F	Total
Rel. Hum.															
Dry Bulb															
Wet Bulb															
Dew Point															

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALNSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
-10/-11	1.0																	9	9	9	13
-12/-13	.2																	2	2	2	4
-14/-15	.5																	5	5	5	7
-16/-17	.2																	2	2	2	14
-18/-19	.5																	5	5	5	7
-20/-21	.3																	3	3	3	6
-22/-23	.1																	1	1	1	2
-24/-25	.3																	3	3	3	4
-26/-27	.2																	2	2	2	3
-28/-29	.1																	1	1	1	4
-30/-31																					1
-32/-33																					2
-34/-35																					2
-36/-37																					1
-38/-39	.1																	1	1	1	1
-40/-41	.2																	2	2	2	
-44/-45																					1
-46/-47																					1
-48/-49																					1
TOTAL	16.9	25.9	15.2	17.2	11.9	6.3	4.1	1.9	.4	.2								928	930 928	928	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	3827773	57381	61.8	17.371	928							93
Dry Bulb	910172	24258	26.1	17.281	930	9.5	54.0					93
Wet Bulb	643976	20406	22.0	14.513	928	9.6	70.4					93
Dew Point	342115	12561	13.5	13.625	928	12.9	91.1					93

Mean No. of Hours with Temperature

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 1   **1200-1400**
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
64/ 63												.1						1	1		
62/ 61										.1	.1							2	2		
60/ 59									.2		.1							3			
58/ 57							.3	.4	.1	.2	.2							12			
56/ 55							.5	.8	.3	.4								19	15		
54/ 53							.6	.6	.3									15	15		
52/ 51				.4		.8	.5	.8	.3									26	26		
50/ 49				.8		1.5	1.1	.8	.4									42	42		
48/ 47				.2		.6	1.4	1.5	.5									39	39	2	
46/ 45			.2	.6		1.2	1.8	.6	.3									45	45	2	
44/ 43		.1	.1	.8		1.4	2.8	.6	.2									56	56	20	
42/ 41			.4	1.3		2.0	2.0											54	54	41	
40/ 39		.2	.1	1.4		2.6	2.0											59	59	43	1
38/ 37			.5	1.5		2.7	.8											51	51	58	4
36/ 35	.2		.3	3.1	1.9	.1												53	53	82	12
34/ 33	.1	.3	1.3	1.8	1.4													46	46	72	5
32/ 31		.9	1.1	1.1	.4				–									32	32	85	21
30/ 29	.2	1.2	1.5	.5														32	32	P?	41
28/ 27	.4	1.9	1.5	.4														40	40	6	54
26/ 25	.6	1.1	1.9															34	34	50	47
24/ 23	.2	.8	1.2															20	20	38	63
22/ 21	.5	1.2	.6															22	22	35	89
20/ 19	.2	1.6																17	18	22	101
18/ 17		1.3	.1															13	13	18	63
16/ 15	.5	.8	.1															13	13	15	67
14/ 13	.5	1.6																20	20	18	61
12/ 11	.2	1.5																16	16	17	61
10/ 9	.4	1.8																21	21	19	46
8/ 7	.8	1.0																16	16	20	29
6/ 5	.5	.8																15	15	16	14
4/ 3	.2	.8																9	9	10	19
2/ 1	.1	1.0																10	10	8	17
0/ -1	1.4																	13	13	20	14
-2/ -3	.1	.3																13	13	12	4

Element (X)	Σx²		Σx		x̄	σ_x	No. Obs.	Mean No. of Hours with Temperature						
								≤ 0 F	≤ 32 F	≥ o7 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC   FORM JUL 54   G-26 5 (OL A)

PSYCHROMETRIC SUMMARY

24112 STATION	MALMSTROM AFB MT/GREAT FALLS STATION NAME	67-76 YEARS	DEC MONTH

PAGE 2 1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-4/ -5	.6	.4																10	10	10	19
-6/ -7	1.1	.2																12	12	13	10
-8/ -9	1.1																	10	10	10	15
-10/-11	.4																	4	4	4	8
-12/-13	.2																	2	2	2	4
-14/-15																					11
-16/-17	.3																	3	3	3	9
-18/-19	.2																	2	2	2	4
-20/-21	.1																	1	1	1	3
-22/-23																					1
-24/-25	.3																	3	3	3	
-26/-27																					5
-30/-31																					1
-32/-33	.3																	3	3	3	1
-34/-35																					1
-36/-37																					1
-38/-39																					2
-40/-41																					1
TOTAL	13.5	20.7	11.1	12.7	15.5	13.2	5.9	4.4	1.7	.8	.4	.1						929	930 / 929	929	929

Element (X)	Σx²	Σx	x̄	σx	No. Obs.	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
						Mean No. of Hours with Temperature						
Rel. Hum.	3239041	52027	56.0	19.291	929							
Dry Bulb	1161022	28500	30.6	17.596	930	7.6	40.7					93
Wet Bulb	767756	23304	25.1	14.049	929	8.3	61.0					93
Dew Point	354517	13895	15.0	12.573	929	11.4	90.8					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
60/ 59										.1	.1	.1						3	3		
58/ 57								.3	.1									4	4		
56/ 55					.1	.3	.4		.2									10	10		
54/ 53					.1	.2	.6	.2	.1									12	12		
52/ 51			.1	.2	.6	.3	.9	.2										22	22		
50/ 49				.1	.3	.8	.5	.4	.2									22	22		
48/ 47				.2	.9	1.1	1.3	.6										38	38		
46/ 45			.1	.5	1.7	1.3	1.4	.3										50	50	5	
44/ 43			.1	1.1	1.2	2.4	.3	.2										49	49	9	
42/ 41			.6	1.2	2.6	1.4	.4											58	58	26	
40/ 39			.4	1.7	2.9	1.0	.2											58	58	35	
38/ 37	.1		.3	1.0	2.5	1.4												49	49	59	3
36/ 35	.1	.1	.4	3.2	1.4	.4												53	53	60	9
34/ 33		.1	1.2	2.9	1.2													50	50	95	5
32/ 31	.2	.2	1.9	2.0	.9													49	49	58	26
30/ 29	.1	1.2	1.1	1.2	.2													35	35	88	29
28/ 27	.3	1.4	2.3	.5														42	42	88	45
26/ 25	.3	1.4	1.9	.1														35	35	51	48
24/ 23	.3	1.0	1.2															23	23	50	50
22/ 21	.8	1.5	.8															23	28	42	89
20/ 19	.4	1.6	.6															25	27	25	98
18/ 17	.6	1.1																16	16	26	76
16/ 15	.5	1.3	.2															19	19	21	79
14/ 13	.4	.8	.1															12	12	15	54
12/ 11	.4	1.9																22	22	22	65
10/ 9	.5	1.1																15	15	18	44
8/ 7	.8	.8																14	14	15	39
6/ 5	.5	.9																13	13	11	16
4/ 3	.3	.8																10	10	14	22
2/ 1	.4	1.0																13	13	12	15
0/ -1	.8	.4																11	11	11	7
-2/ -3	1.4	.6																19	19	22	15
-4/ -5	.5																	5	5	6	14
-6/ -7	1.2																	11	11	11	10

Element (X)	Σx'			Σx		x̄		σx		No. Obs.		Mean No. of Hours with Temperature					
												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																		
Dry Bulb																		
Wet Bulb																		
Dew Point																		

USAFETAC FORM 0-26-5 (OL A) JUL 64   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 2 1500-1700 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-8/-9	1.1																	10	10	10	13
-10/-11	.6																	6	6	6	10
-12/-13	.3																	3	3	3	7
-14/-15	.1																	1	1	1	8
-16/-17	.6																	6	6	6	9
-18/-19	.1																	1	1	1	9
-22/-23																					1
-24/-25																					3
-26/-27	.3																	3	3	3	2
-28/-29																					2
-32/-33	.2																	2	2	2	
-34/-35	.1																	1	1	1	
-36/-37																					2
-38/-39																					1
-40/-41																					1
-42/-43																					1
-44/-45																					1
TOTAL	14.8	19.1	13.4	15.9	15.9	10.6	5.1	3.9	.8	.4	.1	.1							930		928
																		928		928	

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3368940	53204	57.3	18.540	928							
Dry Bulb	1061747	27137	29.2	17.045	930	7.9	45.2					93
Wet Bulb	714993	22337	24.1	13.831	928	8.3	64.0					93
Dew Point	337449	13327	14.4	12.552	928	11.6	91.3					93

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 1   1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
52/ 51					.3	.1	.2	.3										9	9		
50/ 49				.1	.1	.5	.5	.2										14	14		
48/ 47				.2	1.2	1.0	.8											29	29		
46/ 45				.4	1.0	1.1	.2	.2										27	27		
44/ 43			.2	1.6	.9	1.0	.3											37	37	6	
42/ 41			.6	.9	1.8	.8	.2											40	40	5	
40/ 39			1.0	1.8	1.3	.5	.3											46	46	29	
38/ 37			1.0	2.1	1.5	.2												44	44	49	2
36/ 35		.1	.8	2.5	1.1	.3												44	44	49	4
34/ 33		.4	1.7	2.2	.9	.2												50	50	52	12
32/ 31	.1		2.7	1.5	.8													47	47	52	18
30/ 29		.8	2.9	2.6	.2													60	60	69	34
28/ 27	.2	1.3	4.1	.9	.1													61	61	70	37
26/ 25	.4	2.1	3.3															54	54	76	40
24/ 23	.2	1.7	1.4															31	31	81	58
22/ 21	1.1	2.6	1.6															49	49	66	75
20/ 19	.8	1.8	.2															26	26	40	72
18/ 17	.8	2.2	.4															31	32	40	93
16/ 15	.6	2.2	.1															27	27	29	77
14/ 13	.2	.5	.1															8	8	17	58
12/ 11	.3	1.6																18	18	12	67
10/ 9	.6	1.4																19	19	22	42
8/ 7	1.4	.4																17	17	22	41
6/ 5	.8	1.1																17	17	11	26
4/ 3	.8	.8																14	14	20	22
2/ 1	.5	1.0																14	14	11	16
0/ -1	.8	.4																11	11	13	19
-2/ -3	1.7																	21	22	20	5
-4/ -5	.6																	6	7	10	11
-6/ -7	1.1																	10	10	10	8
-8/ -9	1.1	.1																11	11	11	24
-10/-11	.9																	8	8	8	11
-12/-13	.3																	3	3	3	4
-14/-15	.6																	6	6	6	10

Element (X)	Σ_{x^2}			Σ_x		$\bar{x}$	σ_x		No. Obs.	Mean No. of Hours with Temperature					
										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

USAFETAC   FORM JUL 64   0-26-5 (OL A)   REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME		YEARS	MONTH

PAGE 2 1800-2000 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-16/-17	.4				..													4	4	4	4
-18/-19	.1																	1	1	1	9
-20/-21	.3																	3	3	3	6
-22/-23	.1																	1	1	1	3
-24/-25	.2																	2	2	2	4
-26/-27																					6
-28/-29	.1				..													1	1	1	
-30/-31	.1																	1	1	1	2
-32/-33	.2				.													2	2	2	
-36/-37	.1																	1	1	1	
-38/-39	.1												.					1	1	1	2
-40/-41					.																2
-44/-45																					1
-46/-47																					1
TOTAL	17.8	23.0	22.2	16.7	11.1	5.7	2.6	.8										926	929 / 926	926	926

Element (X)	Σx²	Σx	x̄	σₓ	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	3938233	58489	63.2	16.238	926							93
Dry Bulb	833021	23251	25.0	16.449	929	9.5	59.0					93
Wet Bulb	601484	19744	21.3	13.969	926	9.8	73.9					93
Dew Point	323633	12305	13.3	13.157	926	13.3	91.2					93

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 1   2100-2300
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
54/ 53								.1										1	1		
52/ 51					.3		.1											4	4		
50/ 49					.3	.1	.2											6	6		
48/ 47				.1	.8	.9	.3											19	19		
46/ 45				.7	1.6	1.2	.3	.1										36	36		
44/ 43			.2	2.0	2.2	1.0	.1											50	50	5	
42/ 41			.1	1.4	1.5	.2	.2											32	32	3	
40/ 39		.1	.8	1.8	.7	.7	.2											39	39	24	
38/ 37		.3	.5	1.5	1.2	.2												35	35	53	
36/ 35		.1	.8	2.7	.4	.2												39	39	52	6
34/ 33		.4	1.0	2.0	1.0													40	40	47	4
32/ 31		.2	2.0	.9	.5													33	33	43	22
30/ 29			.7	2.7	2.0	.8												56	56	51	28
28/ 27	.3	1.2	4.2	1.0														62	62	63	45
26/ 25	.3	1.6	3.3	.2														50	50	59	49
24/ 23	.1	3.5	2.1															52	52	74	54
22/ 21	.5	3.8	.8															47	47	79	48
20/ 19	.2	3.4	.3															36	38	52	68
18/ 17	1.1	3.0	.1															39	39	50	82
16/ 15	1.1	2.4	.3															35	36	44	69
14/ 13	.1	1.3																13	13	17	83
12/ 11	.3	1.2																14	14	15	72
10/ 9	.7	1.2																17	18	18	47
8/ 7	1.4	.8																20	20	22	43
6/ 5	.5	1.0																14	14	10	20
4/ 3	.8	2.0																25	25	18	23
2/ 1	.4	.7																10	12	22	16
0/ -1	1.1																	10	10	13	15
-2/ -3	1.5	1.0																23	23	22	16
-4/ -5	1.1	.2																12	13	12	9
-6/ -7	1.1																	10	10	11	14
-8/ -9	1.2																	11	11	11	14
-10/-11	.5																	5	5	5	13
-12/-13	.4																	4	4	4	12

Element (X)	ΣX²		ΣX		X̄	σx	No. Obs.			Mean No. of Hours with Temperature					
										≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.																
Dry Bulb																
Wet Bulb																
Dew Point																

24112 MALMSTROM AFB MT/GREAT FALLS 67-76 DEC
STATION STATION NAME YEARS MONTH

PAGE 2 2100-2300 HOURS (L.S.T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																						TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19	20	21	22	23	24	25	26	27	28	29-30	≥31				
-14/-15	.4																						4	4	4	9
-16/-17	.7																						6	6	6	7
-18/-19	.1																						1	1	1	11
-20/-21	.1																						1	1	1	1
-22/-23	.1																						1	1	1	4
-24/-25	.2																						2	2	2	5
-26/-27	.3																						3	3	3	1
-28/-29	.1																						1	1	1	
-30/-31																										3
-32/-33	.1																						1	1	1	1
-34/-35	.2																						2	2	2	3
-36/-37	.1																						1	1	1	
-38/-39																										1
-40/-41																										1
-42/-43																										3
TOTAL	17.4	29.9	19.1	16.2	11.3	4.4	1.5	.2																929		922
																							922	922	922	

Element (X)	Σx^2	Σx	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	4051446	59468	64.5	15.308	922							
Dry Bulb	769171	22013	23.7	16.333	929	9.9	62.9					93
Wet Bulb	563766	18782	20.4	14.025	922	10.2	74.4					93
Dew Point	310879	11703	12.7	13.276	922	14.4	92.0					93

USAFETAC FORM O-26-5 (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	YEARS	MONTH

PAGE 1 **ALL** HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
64/ 63												.0						1	1		
62/ 61										.0	.0							2	2		
60/ 59									.0	.0	.0	.0						6	6		
58/ 57						.0	.1	.0	.0	.0								17	17		
56/ 55						.0	.2	.2	.0	.1								38	38		
54/ 53					.0	.1	.2	.3	.1	.0								53	53		
52/ 51				.0	.2	.3	.2	.3	.1									84	84		
50/ 49				.1	.3	.5	.4	.3	.1									118	118		
48/ 47				.1	.6	.7	.6	.2										172	172	2	
46/ 45			.1	.7	1.3	1.0	.8	.1										295	295	14	
44/ 43		.0	.1	1.3	1.3	1.4	.4	.1										340	340	58	
42/ 41		.0	.4	1.4	1.9	.9	.2											358	358	124	
40/ 39		.1	.8	1.5	1.8	.8	.1											385	385	206	1
38/ 37	.0	.1	.6	1.7	1.5	.5	.0											336	336	368	11
36/ 35	.1	.1	.7	2.6	1.2	.2												353	353	447	58
34/ 33	.0	.3	1.1	2.4	.9	.0												353	353	503	64
32/ 31	.1	.7	1.8	1.5	.5	.0												343	343	453	151
30/ 29	.1	1.0	2.3	1.3	.2													365	365	540	277
28/ 27	.3	1.7	2.8	.6	.0													405	405	580	363
26/ 25	.4	1.7	2.4	.2														351	351	472	355
24/ 23	.4	2.2	1.7	.0														321	321	481	403
22/ 21	.6	2.6	1.1															316	316	450	608
20/ 19	.3	2.8	.4															265	270	339	604
18/ 17	.6	2.0	.2															208	210	307	598
16/ 15	.5	1.9	.2															193	195	228	569
14/ 13	.6	1.3	.0															150	150	196	512
12/ 11	.5	1.3	.0															141	144	134	554
10/ 9	1.0	1.7																205	207	206	384
8/ 7	1.0	.9																145	145	174	323
6/ 5	.7	.7																100	101	99	179
4/ 3	.7	1.1																132	132	115	171
2/ 1	.4	.8																92	95	108	129
0/ -1	1.2	.2																109	112	133	116
-2/ -3	1.4	.6																145	147	149	98

Element (X)	Σx²			Σx			x̄	σₓ	No. Obs.		Mean No. of Hours with Temperature						
											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.																	
Dry Bulb																	
Wet Bulb																	
Dew Point																	

USAFETAC FORM JUL 64 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76		DEC
STATION	STATION NAME	YEARS		MONTH

PAGE 2   ALL
HOURS (L. S. T.)

Temp (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
-4/ -5	.8	.1																69	71	77	94
-6/ -7	1.1	.0																85	85	87	84
-8/ -9	1.3	.0																100	100	101	130
-10/-11	.7																	53	53	53	92
-12/-13	.3																	23	23	23	63
-14/-15	.4																	28	28	28	83
-16/-17	.4																	31	31	31	70
-18/-19	.3																	22	22	22	62
-20/-21	.2																	18	18	18	33
-22/-23	.2																	13	13	13	16
-24/-25	.3																	23	23	23	28
-26/-27	.2																	12	12	12	33
-28/-29	.1																	6	6	6	10
-30/-31	.1																	5	5	5	15
-32/-33	.1																	9	9	9	13
-34/-35	.0																	3	3	3	16
-36/-37	.0																	3	3	3	7
-38/-39	.0																	3	3	3	11
-40/-41	.1																	6	5	6	5
-42/-43	.0																	3	3	3	4
-44/-45	.0																	1	1	1	5
-46/-47																					5
-48/-49																					4
-50/-51																					2
TOTAL	17.9	26.1	16.8	15.5	12.0	6.5	3.1	1.6	.4	.2	.1	.0						7413	7438 / 7413	7413	7413

Element (X)	Σ_{X^2}	Σ_X	$\bar{X}$	σ_X	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	31134522	463276	62.5	17.158	7413							
Dry Bulb	6979473	188705	25.4	17.168	7438	77.7	452.8					744
Wet Bulb	4954076	159070	21.5	14.418	7413	81.2	571.2					744
Dew Point	2626216	97652	19.2	13.445	7413	110.9	730.6					744

USAFETAC   FORM JUL 64   O-26.5 (OL A)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24112 MALMSTROM AFB MT/GREAT FALLS   67-77   ALL
STATION   STATION NAME   YEARS   MONTH

PAGE 1   ALL
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
106/105																	.0	1	1		
104/103																	.0	6	6		
102/101																	.0	5	5		
100/ 99																	.0	13	13		
98/ 97																	.0	20	20		
96/ 95																.0	.1	52	52		
94/ 93													.0	.0	.0	.0	.1	139	139		
92/ 91														.0	.0	.0	.2	225	225		
90/ 89										.0	.0	.0	.0	.0	.1	.1	.1	300	300		
88/ 87									.0		.0	.0	.0	.0	.1	.1	.1	414	414		
86/ 85								.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	475	475		
84/ 83						.0		.0	.0	.1	.1	.1	.2	.1	.1	.0		632	632		
82/ 81					.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.1	.1	.0	873	873		
80/ 79				.0	.0	.0	.0	.0	.1	.1	.2	.2	.2	.2	.1	.0	.0	991	991		
78/ 77				.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.1	.0		1005	1005		
76/ 75			.0	.0	.0	.0	.0	.1	.2	.3	.2	.3	.2	.1	.0	.0		1175	1175		
74/ 73			.0	.0	.0	.0	.0	.1	.3	.3	.3	.2	.1	.0	.0			1292	1294	5	
72/ 71			.0	.0	.0	.0	.1	.2	.3	.3	.3	.2	.1	.0				1446	1447	14	1
70/ 69		.0	.0	.0	.0	.1	.2	.3	.3	.4	.3	.2	.1	.0				1739	1741	29	6
68/ 67		.0	.0	.0	.1	.2	.3	.3	.4	.3	.2	.1	.0	.0				1718	1719	52	13
66/ 65		.0	.0	.0	.1	.2	.4	.4	.4	.4	.2	.1	.0					1988	1989	225	15
64/ 63		.0	.1	.1	.2	.4	.5	.5	.5	.4	.1	.0	.0					2519	2520	499	25
62/ 61		.0	.1	.2	.3	.4	.5	.5	.4	.2	.1	.0						2380	2380	1038	58
60/ 59		.0	.1	.3	.5	.5	.5	.4	.4	.1	.0	.0						2507	2509	1821	122
58/ 57		.1	.2	.4	.5	.6	.5	.5	.3	.1	.0							2818	2818	2477	214
56/ 55		.1	.4	.5	.5	.7	.6	.5	.3	.1	.0							3236	3237	3111	396
54/ 53		.2	.5	.5	.6	.8	.7	.4	.2	.0	.0							3252	3252	3691	723
52/ 51	.0	.2	.5	.5	.6	.7	.6	.4	.1	.0								3205	3205	4029	1063
50/ 49	.0	.2	.6	.5	.7	.7	.5	.3	.1	.0								3165	3165	4193	1715
48/ 47		.3	.6	.7	.7	.8	.5	.2	.0									3323	3324	4137	2278
46/ 45	.0	.4	.5	.8	1.3	.9	.5	.1	.0									3992	3992	4306	3154
44/ 43	.0	.4	.5	1.0	1.0	.8	.3	.0										3457	3457	4180	3235
42/ 41	.0	.4	.6	1.0	.9	.5	.2	.0										3144	3144	4142	3160
40/ 39	.0	.4	1.0	1.3	1.0	.4	.1											3680	3682	4143	3524

Element (X)	Σx²		Σx̄		x̄	σₓ	No. Obs.				Mean No. of Hours with Temperature					
								≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

USAFETAC FORM JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB MT/GREAT FALLS	67-77		ALL
STATION	STATION NAME		YEARS	MONTH

PAGE 2   ALL   HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
38/ 37	.1	.5	1.0	1.2	.7	.2	.0											3180	3180	4510	3691
36/ 35	.1	.7	1.0	1.2	.5	.1	.0											3151	3151	4693	4230
34/ 33	.1	.8	1.1	1.1	.3	.0	.0											3049	3049	4656	4166
32/ 31	.1	.8	1.1	.8	.2	.0												2568	2568	4559	4369
30/ 29	.2	.9	1.1	.5	.1													2405	2405	4074	5044
28/ 27	.2	1.0	1.1	.3	.0													2345	2345	3528	6088
26/ 25	.3	1.0	.8	.1														1856	1856	2815	5066
24/ 23	.3	1.0	.5	.0														1545	1545	2557	3984
22/ 21	.2	1.0	.3	.0														1326	1326	1929	4584
20/ 19	.2	1.0	.2	.0	.0													1226	1231	1478	4182
18/ 17	.2	.7	.1															935	940	1267	3735
16/ 15	.2	.6	.1	.0														826	830	1004	3265
14/ 13	.3	.5	.0															719	728	831	2515
12/ 11	.3	.5	.0															720	725	730	2203
10/ 9	.3	.6	.0															767	780	750	2008
8/ 7	.3	.4	.0															599	613	683	1268
6/ 5	.2	.4	.0															497	505	535	805
4/ 3	.2	.5	.0															581	593	521	712
2/ 1	.2	.5																591	608	621	534
0/ -1	.5	.1																516	528	666	488
-2/ -3	.3	.2																419	424	449	550
-4/ -5	.3	.1																351	355	370	466
-6/ -7	.3	.1																364	365	375	452
-8/ -9	.4	.0																392	392	419	512
-10/-11	.4	.0																320	321	316	394
-12/-13	.3	.0																234	234	241	350
-14/-15	.2																	203	203	203	343
-16/-17	.1																	103	103	103	287
-18/-19	.1																	98	98	98	292
-20/-21	.2																	146	146	146	249
-22/-23	.1																	82	82	82	219
-24/-25	.1																	77	77	77	170
-26/-27	.1																	49	49	49	170
-28/-29	.0																	34	35	34	125

Element (X)	Σx'		Σx		x̄	σx	No. Obs.	Mean No. of Hours with Temperature						
								≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.														
Dry Bulb														
Wet Bulb														
Dew Point														

PSYCHROMETRIC SUMMARY

24112	MALMSTROM AFB·MT/GREAT FALLS	67-77		ALL
STATION	STATION NAME		YEARS	MONTH

PAGE 3   ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31				
-30/-31	.0																	21	21	21	86
-32/-33	.0																	24	25	24	77
-34/-35	.0																	9	9	9	49
-36/-37	.0																	3	3	3	30
-38/-39	.0																	3	3	3	28
-40/-41	.0																	6	6	6	17
-42/-43	.0																	3	3	3	10
-44/-45	.0																	1	1	1	5
-46/-47																					5
-48/-49																					4
-50/-51																					2
TOTAL	7.5	10.7	14.1	13.0	10.9	9.1	7.0	5.4	4.2	3.2	2.4	1.9	1.4	1.1	.8	.5	.8	87531	87662	87531	87531

Element (X)	$\Sigma_X{}^2$	Σ_X	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	303581144	822792	55.1	20.796	87531							
Dry Bulb	210630192	3859832	44.0	21.542	87662	347.9	2304.4	1252.7	762.0	360.3	23.6	8760
Wet Bulb	137283315	3159701	36.1	16.289	87531	370.4	3162.1	10.0	.5			8760
Dew Point	82666085	2318749	26.5	15.578	87531	538.9	3580.1	2.0				8760

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-77
STATION	STATION NAME	YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	16.8	23.9	27.8	35.7	44.7	53.1	58.4	58.1	48.4	39.9	30.7	23.2	38.4
	S D	20.880	14.062	12.471	9.363	7.390	7.532	6.835	6.725	8.675	10.654	13.912	16.706	18.222
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	900	930	10959
03-05	MEAN	16.1	23.2	26.7	33.8	42.5	50.8	55.3	55.0	46.2	38.5	30.0	22.6	36.8
	S D	21.054	14.406	12.437	8.897	6.881	7.146	6.827	6.319	8.602	10.607	14.050	17.009	17.599
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	900	930	10959
06-08	MEAN	15.9	22.9	27.0	36.4	47.3	56.4	61.1	58.8	48.0	39.0	29.8	22.5	38.8
	S D	21.136	14.505	12.828	9.841	7.586	7.717	7.020	7.529	9.308	11.135	13.930	17.007	19.331
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	900	930	10959
09-11	MEAN	18.2	27.8	34.5	45.1	55.6	64.4	71.3	70.2	58.8	48.1	35.7	26.1	46.4
	S D	21.562	15.939	14.535	11.892	9.519	9.348	8.127	9.550	11.001	12.934	14.665	17.281	21.963
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	900	930	10959
12-14	MEAN	22.0	33.3	39.6	49.9	60.3	69.4	77.6	76.7	65.3	54.1	40.7	30.6	51.7
	S D	21.788	16.557	14.602	13.127	10.661	10.737	8.605	10.653	12.126	13.422	14.965	17.596	22.794
	TOTAL OBS	930	849	930	900	929	900	930	930	900	930	900	930	10958
15-17	MEAN	21.5	33.8	40.4	51.1	61.3	70.4	79.6	78.4	66.7	53.8	39.2	29.2	52.2
	S D	21.498	15.937	14.300	13.458	11.001	10.905	9.090	10.934	12.281	13.329	14.584	17.045	23.426
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	899	930	10958
18-20	MEAN	18.2	27.7	34.5	46.0	57.2	65.8	74.8	72.5	58.8	45.6	33.2	25.0	46.7
	S D	20.770	14.232	12.983	11.942	9.948	9.698	8.796	10.348	11.035	11.324	13.695	16.449	22.544
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	897	929	10955
21-23	MEAN	17.6	24.9	29.9	39.1	48.9	57.3	64.1	62.7	51.5	41.3	31.5	23.7	41.1
	S D	20.919	13.986	12.170	9.941	7.923	7.890	7.304	7.602	9.395	10.621	13.900	16.333	19.503
	TOTAL OBS	930	849	930	900	930	900	930	930	900	930	897	929	10955
ALL HOURS	MEAN	13.3	27.2	32.5	42.1	52.2	61.0	67.8	66.6	55.5	45.0	33.8	25.4	44.0
	S D	21.306	15.516	14.283	12.828	11.305	11.383	11.708	12.265	12.835	13.247	14.758	17.168	21.542
	TOTAL OBS	7440	6792	7440	7200	7439	7200	7440	7440	7200	7440	7193	7438	87662

USAFETAC FORM 0 89.5 (OLA)
JUL 64

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-77
STATION	STATION NAME	YEARS

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	14.1	21.0	24.4	31.1	39.4	46.7	49.9	49.4	41.9	34.4	26.4	19.9	33.3
	S D	18.680	11.940	10.376	7.252	5.850	5.625	5.391	4.870	6.310	7.689	11.236	14.385	15.460
	TOTAL OBS	930	838	930	900	929	900	930	930	900	930	900	927	10944
03-05	MEAN	13.5	20.5	23.5	29.9	38.0	45.3	48.4	47.8	40.7	33.5	25.9	19.5	32.5
	S D	18.921	12.324	10.519	7.090	5.700	5.574	5.448	4.922	6.467	7.701	11.448	14.756	15.251
	TOTAL OBS	925	835	930	900	930	900	930	930	900	930	899	925	10934
06-08	MEAN	13.3	20.3	23.8	31.8	41.3	48.9	51.9	50.2	41.9	33.8	25.7	19.4	33.6
	S D	18.989	12.414	10.840	7.534	5.760	5.381	5.074	4.875	6.630	7.923	11.278	14.718	16.282
	TOTAL OBS	929	832	930	900	930	900	929	930	900	930	900	928	10938
09-11	MEAN	15.1	23.6	28.5	36.6	45.2	52.1	55.9	55.0	47.4	39.1	29.7	22.0	37.6
	S D	18.979	12.834	10.998	7.664	5.736	5.632	4.970	4.367	6.397	7.814	11.060	14.513	16.712
	TOTAL OBS	930	840	930	900	930	900	930	930	900	929	900	928	10947
12-14	MEAN	17.8	26.9	31.4	38.7	46.9	53.5	57.4	56.6	49.6	41.7	32.6	25.1	39.9
	S D	18.481	12.439	10.033	7.607	5.643	5.668	4.849	4.086	6.413	7.491	10.645	14.049	16.054
	TOTAL OBS	930	848	929	899	929	900	930	930	898	930	900	929	10952
15-17	MEAN	17.5	27.3	31.8	39.1	47.2	53.7	57.5	56.7	49.8	41.6	31.6	24.1	39.9
	S D	18.325	11.917	9.657	7.519	5.486	5.573	4.807	3.996	6.325	7.529	10.644	13.831	16.127
	TOTAL OBS	930	846	929	900	930	900	930	928	900	930	899	928	10950
18-20	MEAN	15.2	23.8	28.6	36.8	45.8	52.7	56.4	55.0	46.8	37.6	28.1	21.3	37.4
	S D	18.404	11.653	9.691	7.425	5.597	5.614	4.944	4.170	6.494	7.393	10.811	13.969	16.594
	TOTAL OBS	928	839	930	900	930	900	930	927	900	930	897	926	10937
21-23	MEAN	14.8	22.0	25.9	33.3	42.0	49.2	52.6	51.4	43.5	35.2	26.9	20.4	34.8
	S D	18.512	11.817	9.804	7.222	5.531	5.515	5.102	4.570	6.447	7.477	11.100	14.025	15.821
	TOTAL OBS	928	836	930	899	930	900	930	927	900	930	897	922	10929
ALL HOURS	MEAN	15.2	23.2	27.2	34.7	43.2	50.3	53.7	52.8	45.2	37.1	28.3	21.5	36.1
	S D	18.721	12.440	10.710	8.131	6.554	6.316	6.045	5.550	7.279	8.263	11.303	14.418	16.289
	TOTAL OBS	7430	6714	7438	7198	7438	7200	7439	7432	7198	7439	7192	7413	87531

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-77
STATION	STATION NAME	YEARS

HRS ll S T h		JAN	FEB	MAR	APR	MAY	JUN.	JUL	AUG.	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN	6.3	13.8	17.5	23.9	32.9	40.5	42.3	41.2	34.7	26.7	18.5	12.4	26.0
	S D	18.891	11.830	9.761	7.528	7.319	6.635	7.482	7.691	6.919	7.177	10.549	13.625	15.673
	TOTAL OBS	930	838	930	900	929	900	930	930	900	930	900	927	10944
03-05	MEAN	5.9	13.2	16.9	23.3	32.2	39.8	41.9	40.8	34.2	26.3	18.2	12.1	25.5
	S D	19.008	12.104	10.262	7.338	7.114	6.510	6.975	7.310	6.918	7.040	10.921	14.190	15.718
	TOTAL OBS	925	835	930	900	930	900	930	930	900	930	899	925	10934
06-08	MEAN	5.6	13.0	17.1	24.6	34.2	42.0	44.1	42.5	35.1	26.5	17.9	12.0	26.3
	S D	19.207	12.308	10.539	7.529	6.806	6.476	6.797	6.971	6.878	7.051	10.774	14.208	16.388
	TOTAL OBS	929	832	930	900	930	900	929	930	900	930	900	928	10938
09-11	MEAN	6.8	14.7	18.6	25.3	34.3	41.8	44.1	43.2	36.7	28.3	20.0	13.5	27.3
	S D	18.744	11.855	9.801	7.363	7.177	7.277	7.536	6.753	6.657	6.571	10.155	13.625	15.854
	TOTAL OBS	930	840	930	900	930	900	930	930	900	929	900	928	10947
12-14	MEAN	8.2	15.8	18.7	24.5	33.3	40.7	42.8	41.6	35.4	27.8	20.4	15.0	27.1
	S D	17.735	10.724	8.724	7.371	7.523	7.721	8.155	7.239	7.121	6.709	9.647	12.573	14.878
	TOTAL OBS	930	848	929	899	929	900	930	930	898	930	900	929	10952
15-17	MEAN	7.9	16.2	18.5	24.0	33.2	40.3	41.6	40.7	34.5	27.5	20.0	14.4	26.6
	S D	17.806	10.382	8.400	7.482	8.032	7.918	8.590	7.580	7.522	6.925	9.781	12.552	14.766
	TOTAL OBS	930	846	929	900	930	900	930	928	900	930	899	928	10950
18-20	MEAN	6.9	15.5	18.5	24.5	33.9	41.7	42.5	41.1	34.9	27.3	19.1	13.3	26.7
	S D	18.325	11.110	8.649	7.919	8.362	8.347	8.910	7.973	7.422	6.944	10.321	13.157	15.539
	TOTAL OBS	928	839	930	900	930	900	930	927	900	930	897	926	10937
21-23	MEAN	6.7	14.8	18.1	24.6	33.9	41.5	42.8	41.3	34.9	26.9	18.7	12.7	26.5
	S D	18.555	11.649	9.145	7.793	7.708	7.322	8.003	8.133	7.259	7.076	10.370	13.276	15.673
	TOTAL OBS	928	836	930	899	930	900	930	927	900	930	897	922	10929
ALL HOURS	MEAN	6.8	14.6	18.0	24.3	33.5	41.0	42.8	41.5	35.0	27.2	19.1	13.2	26.5
	S D	18.551	11.556	9.461	7.560	7.545	7.340	7.882	7.510	7.123	6.968	10.354	13.445	15.578
	TOTAL OBS	7430	6714	7438	7198	7438	7200	7439	7432	7198	7439	7192	7413	87531

USAFETAC FORM JUL 64 0.89-5 (OLA)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77		JAN
STATION	STATION NAME	PERIOD		MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

| MONTH | HOURS (L S T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN | | | | | | | | | MEAN RELATIVE HUMIDITY | TOTAL NO. OF OBS. |
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	99.5	95.9	87.4	62.3	30.4	12.2	4.2	64.7	930
	03-05	100.0	99.9	99.4	96.2	87.5	67.6	31.0	12.4	3.9	65.2	925
	06-08	99.9	99.9	99.5	97.0	88.5	64.5	30.9	12.1	3.3	65.1	929
	09-11	100.0	100.0	98.4	93.7	80.4	60.3	26.1	9.8	3.2	62.7	930
	12-14	100.0	99.4	94.9	84.3	69.8	46.3	21.4	5.7	.8	57.8	930
	15-17	100.0	99.4	95.4	85.4	72.3	46.2	20.2	5.2	1.1	58.0	930
	18-20	100.0	100.0	99.2	94.1	82.5	59.8	25.3	8.2	1.3	62.6	928
	21-23	100.0	100.0	99.1	95.2	84.7	59.4	26.7	9.5	2.3	63.6	928
TOTALS		100.0	99.8	98.2	92.7	81.6	58.3	26.5	9.4	2.5	62.5	7430

USAFETAC FORM JUL 64 0-87-5 (OL A)

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	FEB
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L S T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	99.6	99.0	95.1	85.6	63.4	38.4	20.0	7.5	66.5	838
	03-05	100.0	99.6	98.7	95.4	86.9	64.4	39.4	18.1	6.8	66.5	835
	06-08	100.0	99.6	98.2	95.8	86.5	65.6	39.7	17.1	5.9	66.6	832
	09-11	100.0	99.4	95.9	84.4	67.0	50.1	31.5	16.1	6.0	60.6	840
	12-14	100.0	97.4	86.2	66.6	52.4	35.4	22.4	10.7	2.2	52.9	848
	15-17	100.0	97.8	86.2	67.3	51.8	35.3	22.1	8.7	1.2	52.6	846
	18-20	100.0	99.8	97.0	89.4	74.5	53.4	30.0	15.7	4.6	61.9	839
	21-23	100.0	100.0	99.3	94.3	86.1	65.7	37.9	20.2	7.1	66.4	836
TOTALS		100.0	99.2	95.1	86.0	73.9	54.2	32.7	15.8	5.2	61.8	6714

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAR
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	99.5	95.8	82.3	62.7	41.7	23.5	9.6	67.1	930
	03-05	100.0	100.0	99.1	95.7	85.9	66.9	45.4	26.6	11.6	68.5	930
	06-08	100.0	100.0	99.1	95.6	85.7	66.7	44.2	25.7	11.2	68.2	930
	09-11	100.0	99.5	92.7	71.6	54.0	39.0	27.6	16.9	5.3	56.1	930
	12-14	100.0	97.0	72.8	49.7	38.2	29.6	20.3	10.3	2.7	47.7	929
	15-17	100.0	96.1	68.0	48.0	36.3	26.3	17.3	9.3	1.7	45.9	929
	18-20	100.0	99.8	92.0	72.2	54.0	39.9	26.6	14.0	4.0	55.7	930
	21-23	100.0	100.0	99.0	91.7	73.7	54.2	35.9	20.0	7.7	63.8	930
TOTALS		100.0	99.1	90.3	77.5	63.8	48.2	32.4	18.3	6.7	59.1	7438

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	ApR
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L S.T)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	99.1	92.3	75.1	53.1	37.1	23.6	10.8	64.6	900
	03-05	100.0	100.0	99.8	94.4	82.2	61.2	43.8	27.3	11.3	67.4	900
	06-08	100.0	100.0	99.1	89.8	73.1	57.0	40.2	24.6	10.1	64.9	900
	09-11	100.0	97.8	81.6	56.9	40.9	31.0	20.8	13.4	4.2	50.2	900
	12-14	100.0	89.8	60.1	39.6	28.7	23.4	15.8	8.8	2.7	42.2	899
	15-17	100.0	83.8	51.3	36.7	28.9	21.0	13.8	8.2	2.9	40.2	900
	18-20	100.0	94.4	73.2	51.4	38.1	29.1	20.1	11.4	3.9	47.8	900
	21-23	100.0	99.9	96.0	79.9	58.8	43.7	30.9	20.5	7.7	59.2	899
TOTALS		100.0	95.7	82.5	67.6	53.2	39.9	27.8	17.2	6.7	54.6	7198

USAFETAC FORM JUL 64 0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	MAY
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LS.T)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.7	92.2	76.7	59.5	40.4	24.1	7.3	65.7	929
	03-05	100.0	100.0	99.9	96.5	84.0	65.6	48.0	28.8	8.7	68.8	930
	06-08	100.0	100.0	99.2	89.6	71.2	51.9	34.2	20.0	6.2	62.7	930
	09-11	100.0	98.4	83.8	55.1	35.7	24.2	17.1	8.6	2.4	48.1	930
	12-14	100.0	91.7	59.0	37.8	27.1	18.1	10.8	5.9	1.9	40.8	929
	15-17	100.0	82.9	54.2	36.1	25.8	18.7	12.8	7.3	2.2	39.8	930
	18-20	100.0	92.0	70.4	49.6	36.3	26.6	18.7	9.7	2.9	46.2	930
	21-23	100.0	99.5	93.7	80.4	61.4	46.9	33.1	18.6	4.7	59.5	930
TOTALS		100.0	95.6	82.5	67.2	52.3	38.9	26.9	15.4	4.5	54.0	7438

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   JUN
STATION   STATION NAME   PERIOD   MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	99.1	93.6	78.3	55.9	37.2	19.6	2.6	64.4	900
	03-05	100.0	100.0	99.3	96.4	86.3	65.7	45.0	22.6	4.6	67.7	900
	06-08	100.0	99.8	98.0	91.3	69.6	45.9	30.0	13.7	2.3	60.6	900
	09-11	100.0	98.2	83.9	54.3	33.2	21.8	13.0	4.3	.3	46.7	900
	12-14	100.0	89.8	58.9	36.3	23.0	14.0	8.3	2.3	.2	38.9	900
	15-17	100.0	86.0	53.9	33.3	20.7	14.4	7.7	1.6		37.3	900
	18-20	100.0	94.6	74.3	49.4	35.9	25.4	15.4	4.4	.3	45.6	900
	21-23	100.0	99.9	95.4	80.9	61.2	42.2	29.6	12.4	.9	57.9	900
TOTALS		100.0	96.0	82.9	66.9	51.0	35.7	23.3	10.1	1.4	52.4	7200

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	JUL
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	96.7	84.7	61.6	37.6	20.8	9.7	1.5	57.1	930
	03-05	100.0	99.8	99.2	93.0	78.9	54.7	28.5	12.9	2.6	62.6	930
	06-08	100.0	100.0	96.9	83.3	58.4	36.0	18.6	6.4	.8	55.7	929
	09-11	100.0	95.2	70.3	41.0	20.4	9.9	5.7	1.6		40.1	930
	12-14	100.0	78.6	43.5	20.2	9.8	5.6	1.8	.1		31.5	930
	15-17	99.8	67.0	33.9	17.6	9.2	5.3	1.9	.6		28.8	930
	18-20	99.9	78.9	51.8	30.0	17.6	9.5	4.7	1.4	.1	35.0	930
	21-23	100.0	98.5	84.8	64.4	38.6	23.9	12.7	5.6	.2	48.8	930
TOTALS		100.0	89.8	72.1	54.3	36.8	22.8	11.8	4.8	.7	45.0	7439

USAFETAC FORM JUL 64 0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	AUG
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	99.9	93.1	75.5	54.5	39.1	26.8	12.7	3.5	56.3	930
	03-05	100.0	100.0	98.0	85.8	66.6	48.4	34.1	18.5	5.1	61.4	930
	06-08	100.0	99.8	94.2	78.8	59.8	42.5	29.6	14.7	3.2	57.8	930
	09-11	100.0	90.9	65.6	43.8	26.9	16.1	9.6	4.5	.6	41.5	930
	12-14	99.9	70.3	43.4	25.2	14.1	8.4	5.4	2.6	.4	32.5	930
	15-17	99.5	62.4	37.3	23.9	4	7.8	4.8	1.9	.2	30.2	928
	18-20	99.9	75.3	53.2	35.2	22.9	15.7	9.7	3.9	.3	37.1	927
	21-23	100.0	96.1	78.4	60.2	44.4	30.2	18.8	9.0	1.1	49.5	927
TOTALS		99.9	86.8	70.4	53.6	37.7	26.0	17.4	8.5	1.8	45.8	7432

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	SEP
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	99.6	97.0	89.4	74.3	52.6	29.1	12.6	3.4	61.5	900
	03-05	100.0	99.6	98.2	93.4	81.3	61.6	38.0	16.9	4.6	65.1	900
	06-08	100.0	99.8	96.8	90.1	75.9	57.3	36.0	17.2	5.0	63.5	900
	09-11	100.0	96.7	82.0	58.1	35.4	21.7	14.0	6.9	1.4	47.2	900
	12-14	99.7	86.0	54.2	30.1	18.6	12.5	7.6	3.3	.6	36.8	898
	15-17	99.4	78.6	48.9	24.9	15.7	10.3	6.7	2.9	.6	34.2	900
	18-20	100.0	94.2	76.7	50.9	29.7	18.8	11.2	6.6	1.6	44.4	900
	21-23	100.0	99.4	92.4	79.4	58.1	38.9	23.0	10.2	2.6	55.9	900
TOTALS		99.9	94.2	80.8	64.5	48.6	34.2	20.7	9.6	2.5	51.1	7198

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112   MALMSTROM AFB MT/GREAT FALLS   68-77   OCT
STATION   STATION NAME   PERIOD   MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	99.6	96.6	87.2	71.2	51.1	34.3	20.6	6.2	62.3	930
	03-05	100.0	99.8	97.1	89.1	74.1	56.0	39.7	25.2	7.8	64.4	930
	06-08	100.0	99.9	96.1	87.6	71.2	54.2	40.9	26.6	9.8	64.1	930
	09-11	100.0	96.2	83.3	61.6	41.9	29.9	20.9	13.8	4.3	50.8	929
	12-14	100.0	88.5	65.5	37.3	25.7	17.7	11.1	7.2	2.7	41.0	930
	15-17	100.0	88.6	63.1	37.3	23.9	18.4	11.5	6.9	1.5	40.8	930
	18-20	100.0	98.5	88.6	68.3	47.3	31.2	21.3	12.6	2.9	52.5	930
	21-23	100.0	99.0	96.5	84.4	64.6	44.7	28.4	17.8	6.2	59.7	930
TOTALS		100.0	96.3	85.9	69.1	52.5	37.9	26.0	16.3	5.2	54.5	7439

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	68-77	NOV
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	99.7	96.6	87.7	74.6	56.1	35.8	21.7	8.2	63.5	900
	03-05	100.0	99.7	96.4	89.1	75.6	57.6	40.2	22.9	9.6	64.5	899
	06-08	100.0	99.7	95.8	87.8	74.8	57.7	40.6	23.9	7.7	64.4	900
	09-11	100.0	98.6	90.0	74.4	57.3	42.2	30.0	17.7	6.3	57.1	900
	12-14	100.0	95.1	80.9	53.0	38.2	30.0	21.6	11.8	3.7	49.0	900
	15-17	100.0	97.0	83.6	59.5	43.2	31.0	21.8	11.0	2.6	50.4	899
	18-20	100.0	99.3	95.3	82.6	64.3	45.9	29.1	17.9	5.5	59.4	897
	21-23	100.0	100.0	95.4	87.4	72.1	53.7	33.3	19.6	6.6	62.2	897
TOTALS		100.0	98.6	91.8	77.7	62.5	46.8	31.6	18.3	6.3	58.8	7192

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	67-76	DEC
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	98.9	93.3	82.1	61.7	37.5	18.9	5.3	65.4	927
	03-05	100.0	100.0	98.8	93.2	83.8	62.5	38.1	19.5	5.4	65.8	925
	06-08	100.0	100.0	98.3	94.1	82.3	65.0	40.2	21.2	5.3	66.0	928
	09-11	100.0	99.7	96.2	88.8	72.3	52.2	32.5	17.3	5.4	61.8	928
	12-14	100.0	98.3	91.7	73.8	57.7	40.8	25.9	13.9	3.9	56.0	929
	15-17	100.0	98.7	93.9	78.9	62.3	41.2	25.1	14.7	5.0	57.3	928
	18-20	100.0	100.0	97.8	90.3	78.1	56.4	32.5	16.3	5.1	63.2	926
	21-23	100.0	100.0	99.3	93.8	81.6	59.3	37.1	16.7	4.2	64.5	922
TOTALS		100.0	99.6	96.	88.3	75.0	54.9	33.6	17.3	5.0	62.5	7413

USAFETAC   FORM JUL 64   0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24112	MALMSTROM AFB MT/GREAT FALLS	67-77	ALL
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.8	98.2	92.7	81.6	58.3	26.5	9.4	2.5	62.5	7430
FEB		100.0	99.2	95.1	86.0	73.9	54.2	32.7	15.8	5.2	61.8	6714
MAR		100.0	99.1	90.3	77.5	63.8	48.2	32.4	18.3	6.7	59.1	7438
APR		100.0	95.7	82.5	67.6	53.2	39.9	27.8	17.2	6.7	54.6	7198
MAY		100.0	95.6	82.5	67.2	52.3	38.9	26.9	15.4	4.5	54.0	7438
JUN		100.0	96.0	82.9	66.9	51.0	35.7	23.3	10.1	1.4	52.4	7200
JUL		100.0	89.8	72.1	54.3	36.8	22.8	11.8	4.8	.7	45.0	7439
AUG		99.9	86.8	70.4	53.6	37.7	26.0	17.4	8.5	1.8	45.8	7432
SEP		99.9	94.2	80.8	64.5	48.6	34.2	20.7	9.6	2.5	51.1	7198
OCT		100.0	96.3	85.9	69.1	52.5	37.9	26.0	16.3	5.2	54.5	7439
NOV		100.0	98.6	91.8	77.7	62.5	46.8	31.6	18.3	6.3	58.8	7192
DEC		100.0	99.6	96.9	88.3	75.0	54.9	33.6	17.3	5.0	62.5	7413
TOTALS		100.0	95.9	85.8	72.1	57.4	41.5	25.9	13.4	4.0	55.2	87531

USAFETAC   FORM JUL 64   0-87-5 (OL A)

PART F   PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
       Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
       METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.

P R E S S U R E   A L T I T U D E   (I 0 0 0's F T.)

11   10   9   8   7   6   5   4   3   * 2   1   0   -1

20(IN. HG.) 21   22   23   24   25   26   27   28   29   30   31(IN.HG)

B A R O M E T R I C   P R E S S U R E

(MB) 700   750   800   850   900   950   1000   1050 (MB)

11   10   9   8   7   6   5   4   3   2   1   0   -1

P R E S S U R E   A L T I T U D E   (I 0 0 0's   F T.)

F

74-29967
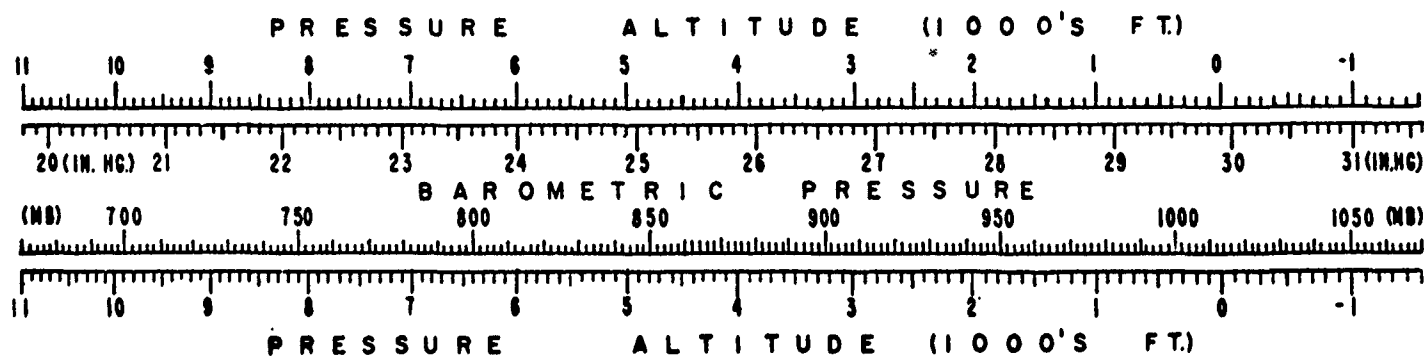
DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

| 24112 | MALMSTROM AFB MT/GREAT FALLS | 67-77 |
| STATION | STATION NAME | YEARS |

HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG.	SEP	OCT	NOV	DEC	ANNUAL
02	MEAN	26.269	26.300	26.247	26.280	26.293	26.289	26.364	26.344	26.358	26.350	26.315	26.261	26.305
	S D	.216	.211	.201	.174	.166	.133	.120	.111	.173	.182	.206	.201	.182
	TOTAL OBS	293	273	301	296	303	296	285	288	295	302	293	298	3523
05	MEAN	26.263	26.297	26.244	26.280	26.299	26.292	26.376	26.351	26.361	26.348	26.313	26.262	26.307
	S D	.217	.210	.202	.176	.168	.134	.122	.113	.174	.184	.211	.209	.185
	TOTAL OBS	288	276	297	292	304	292	283	289	294	300	286	300	3501
08	MEAN	26.269	26.302	26.258	26.294	26.315	26.306	26.393	26.368	26.372	26.361	26.320	26.267	26.318
	S D	.221	.211	.201	.176	.172	.134	.122	.115	.176	.188	.211	.207	.186
	TOTAL OBS	292	277	305	296	303	294	282	293	294	297	294	304	3531
11	MEAN	26.286	26.316	26.259	26.288	26.305	26.296	26.381	26.357	26.368	26.361	26.323	26.284	26.318
	S D	.219	.215	.200	.176	.171	.133	.122	.117	.175	.192	.215	.209	.186
	TOTAL OBS	290	272	306	296	301	295	285	293	296	301	294	308	3537
14	MEAN	26.252	26.286	26.228	26.269	26.280	26.272	26.351	26.326	26.338	26.326	26.292	26.244	26.288
	S D	.216	.217	.205	.176	.167	.132	.120	.117	.171	.190	.212	.203	.184
	TOTAL OBS	294	279	302	295	304	293	286	295	292	299	295	300	3534
17	MEAN	26.265	26.283	26.223	26.255	26.267	26.257	26.328	26.307	26.333	26.327	26.302	26.260	26.284
	S D	.214	.212	.204	.176	.163	.130	.123	.117	.164	.185	.211	.197	.181
	TOTAL OBS	294	271	304	295	300	294	284	287	293	303	289	303	3517
20	MEAN	26.270	26.298	26.238	26.271	26.274	26.265	26.340	26.318	26.347	26.338	26.311	26.270	26.294
	S D	.210	.211	.202	.174	.161	.130	.117	.116	.165	.182	.213	.193	.179
	TOTAL OBS	291	274	305	294	303	292	279	253	294	302	292	305	3524
23	MEAN	26.265	26.301	26.247	26.286	26.292	26.287	26.362	26.340	26.357	26.348	26.310	26.276	26.306
	S D	.215	.208	.204	.174	.160	.133	.118	.114	.170	.184	.210	.196	.181
	TOTAL OBS	291	277	307	297	301	298	286	287	296	305	294	294	3533
ALL HOURS	MEAN	26.267	26.298	26.243	26.278	26.291	26.283	26.362	26.339	26.354	26.345	26.311	26.265	26.303
	S D	.216	.212	.202	.175	.166	.133	.122	.116	.171	.186	.211	.202	.183
	TOTAL OBS	2333	2199	2427	2361	2419	2354	2270	2325	2354	2409	2337	2412	28200

USAFETAC FORM JUL '64 0.89-5 (OLA)

DATA PROCESSING BRANCH
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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

24112	MALMSTROM AFB MT/GREAT FALLS	67-77
STATION	STATION NAME	YEARS

HRS (L S T)		JAN	FEB	MAR.	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
02	MEAN	1017.3	1016.7	1013.8	1013.7	1012.9	1011.5	1013.6	1012.9	1014.8	1015.8	1016.1	1015.4	1014.5
	S D	10.139	8.916	8.952	7.614	6.760	5.566	4.935	4.693	7.372	7.973	8.951	8.934	7.912
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
05	MEAN	1017.4	1016.8	1013.9	1013.9	1013.3	1011.9	1014.2	1013.3	1015.0	1016.1	1016.5	1015.7	1014.8
	S D	10.170	8.860	8.876	7.561	6.809	5.523	4.887	4.678	7.426	8.037	9.030	9.012	7.910
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
08	MEAN	1017.8	1017.5	1014.7	1014.7	1013.7	1012.2	1014.8	1014.0	1015.9	1016.9	1017.0	1016.1	1015.4
	S D	10.264	8.971	8.789	7.479	6.906	5.405	4.909	4.713	7.464	8.089	9.128	9.064	7.046
	TOTAL OBS	310	283	310	300	309	300	310	310	300	310	300	310	152
11	MEAN	1018.1	1017.5	1014.3	1014.3	1013.3	1011.8	1014.3	1013.5	1015.3	1016.4	1016.7	1016.2	1015.1
	S D	10.204	9.009	8.877	7.457	6.807	5.397	4.881	4.820	7.390	8.185	9.178	9.039	7.983
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
14	MEAN	101/.	1016.0	1013.1	1013.2	1012.4	1010.8	1013.1	1012.3	1014.0	1014.9	1015.3	1014.8	1013.9
	S D	10..46	9.142	8.886	7.533	6.780	5.464	4.896	4.874	7.275	8.132	9.078	8.964	7.933
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
17	MEAN	1017.2	1016.2	1013.0	1012.9	1012.0	1010.3	1012.3	1011.6	1013.8	1015.2	1016.0	1015.7	1013.8
	S D	9.992	8.818	8.890	7.507	6.618	5.379	4.922	4.862	7.048	7.902	9.088	8.797	7.924
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
20	MEAN	1017.6	1017.1	1014.1	1013.6	1012.2	1010.6	1012.6	1012.1	1014.8	1016.1	1016.6	1016.3	1014.5
	S D	9.973	8.993	8.889	7.587	6.560	5.351	4.799	4.852	7.084	7.871	9.205	8.679	7.966
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
23	MEAN	1017.4	1016.9	1014.0	1014.0	1012.9	1011.5	1013.6	1012.8	1014.9	1016.0	1016.2	1016.1	1014.7
	S D	10.179	8.942	9.102	7.532	6.610	5.502	4.859	4.840	7.308	7.966	9.101	8.797	7.931
	TOTAL OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
ALL HOURS	MEAN	1017.4	1016.8	1013.8	1013.8	1012.8	1011.3	1013.6	1012.8	1014.8	1015.9	1016.3	1015.8	1014.6
	S D	10.128	8.958	8.911	7.542	6.745	5.476	4.945	4.840	7.313	8.031	9.095	8.912	7.954
	TOTAL OBS	2480	2264	2480	2400	2479	2400	2480	2480	2400	2480	2397	2480	29220

USAFETAC FORM JUL 64 0.89.5 (OLA)